



Chemicals • Laboratory Supplies • Equipment
Fox
Scientific, Inc. *est. 1988*



*Serving the scientific
community for*

30
years



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Fox Scientific, Inc. was established in 1988. Fox offers a full line of laboratory supplies, equipment and chemicals from a wide range of manufacturers. Whether you need laboratory products for environmental, manufacturing, education or research, we have the products to meet your testing needs.

Not only are you assigned your own personal sales guide we also offer the following services:

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 - On-Line ordering
 - On-Line Invoices and Order Status
 - Automated Order Expediting Report
 - Electronic Billing
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 - Consignment Inventory
- Warehouse in DFW area with product ready to ship
 - 300,000+ items and 150+ mfg.'s to choose from
- HUB certified/Minority owned for City/State & Federal business

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APRONS

Beta Blocking Apron, Neoprene

This lightweight, yet effective, beta-blocking neoprene apron blocks up to 96% of the high energy beta rays from Strontium-90 and over 98% of the beta rays from Phosphorous-32.

Perfect for safeguarding against chemical splashes.

Strap system places weight of apron on the shoulders instead of the neck.

Intended for use in conjunction with radiation protection shields.

Size: 3.2mm (1/8") thick, 51 x 82cm long (20 x 32-1/4"); weighs 1.5Kg (3.35lb)

One size fits all; black



Part No.	Description	Qty	List
M440-574	Neoprene Beta Blocking Apron	1/ea	\$354.15

PVC-Coated

This apron is made of a chemical resistant PVC-coated fabric which stays flexible. There is reinforcement at the points of strain. Aprons include cloth ties at the neck and waist. Other sizes available.



Part No.	Description	Qty	List
A665-002	42 x 36"	1/ea	\$21.36

Bib Style

White. Suntech™ bib style apron is constructed of spunbonded polypropylene and laminated to Sunrise's new microporous film to provide a superior combination of strength, barrier protection and breathability.



Part No.	Description	Qty	List
A210-508	28 x 38"	100/cs	\$131.54
A210-513	28 x 44"	100/cs	\$147.52

Polyethylene

Disposable, embossed texture, white.



Part No.	Description	Qty	List
A145-001	28 x 46"	100/cs	\$118.32

Microporous WBP

High Five® Products

(Waterproof Barrier Protection)

Single-use bib-style apron, white.



Part No.	Description	Qty	List
A145-002	28 x 36"	100/cs	\$132.60

Vinyl Apron

Vikem® - Lightweight and Comfortable. Made from 4 mil thick vinyl, these aprons have a stitched cotton binding securing all edges. Strong tie backs are double reinforced with metal grommets through three layers of material at the waist.

Non-absorbent and chemically resistant.

Excellent protection to personnel in hospitals, schools, laboratories and industrial plants.



Part No.	Description	Qty	List
M440-575	36 x 27", Translucent	1/ea	\$38.75
M440-576	42 x 36", Translucent	1/ea	\$57.58



Breathable Particle Protection Apron

Kimberly-Clark™ Kleenguard™ A80 - Chemical Permeation & Liquid Jet Protection Aprons. This PPE has undergone ASTM F1001 Penetration Testing and is ideal for use where workers may come into contact with hazardous chemical vapors such as chemical handling / mixing / cleanup, hazardous material handling and waste cleanup, petrochemicals, utilities and for industrial hazmat teams. Made of Saranex™ 23-P film, laminated to a durable fabric, which provides a soft, cloth-like feel against the skin. Each apron measures 29" x 44"; one size fits all (most). Features a neck loop and ties.



Part No.	Description	Qty	List
A101-507	29 x 44", White	50/cs	\$233.94

Chemical Spray Protection Apron

Kimberly-Clark™ Kleenguard™ A70 - Made of a 1.5 mil polyethylene-coated fabric, to resist many water-based liquids, greases and oils and liquid chemical splashes; wick-away lining for enhanced comfort. One size fits all. Passes NFPA 99 for antistatic materials. Features bound seams, bound neck and ties.



Part No.	Description	Qty	List
A101-605	29 x 44", Yellow	100/cs	\$257.50

Polypropylene

Advantage Plus aprons provide the ultimate alternative to Tyvek®. These aprons offer protection in general purpose industrial applications. The fabric will not let water-based liquids penetrate. Lightweight yet durable, Advantage Plus is ideal for food manufacturing, light industrial, cleanroom and similar industries where a low particulate barrier garment is necessary. By lightly coating polypropylene with a layer of polyethylene, the material has a reduced particle release and protects from water based liquids and certain chemicals. This coated material is an economical choice for worker comfort and safety.



Part No.	Description	Qty	List
A125-003	24 x 42", White	100/cs	\$273.77

Polyethylene

Aprons are lightweight yet durable. Complies with FDA guidelines for food handling. Polyethylene is the ideal material for food manufacturing, food handling, light industrial and similar industries where splash protection is necessary. This thin, polymer material is an economical way to keep clothing clean and protected from water based liquids and certain chemicals. Polyethylene is inherently anti-static with a maximum static decay of 0.5 seconds.



Part No.	Description	Qty	List
A125-000	24 x 42"	100/cs	\$128.07

Breathable Particle Protection Apron

Kimberly-Clark™ Kleenguard™ A20 - These protective garments are one size fits all (universal size) and feature a tie in the back and pockets. The A20 fabric is made of the breathable Microforce barrier SMS fabric, which helps protect against hazardous particles. They are a popular choice for dusty environments such as laboratories and remediation, as well as pesticide applications and as decontamination modesty garments. Kleenguard™ A20 aprons are designed to protect against dirt, grime and dust and are made with breathable Microforce barrier fabric. These aprons tie in back for easy donning. Each protective apron measures 28 x 40 inches. Passes NFPA 99 for antistatic materials.



Part No.	Description	Qty	List
A101-314	Denim w/Pockets	100/cs	\$348.75

BEARD COVERS

Light Duty Beard Cover

Kimberly-Clark™ Kleenguard™ A10 - These white, disposable beard covers are a popular choice for food processing, general maintenance and manufacturing and are not made with natural rubber.

Features elasticized ear loops.

Designed for use when workers are in temporary contact with dirt, grime and dust.

Kleenguard™ A10 beard covers are made of a lightweight spunbound material.

Lightweight, breathable fabric provides a cool, comfortable work environment.



Part No.	Description	Qty	List
A101-599	Universal	100/cs	\$297.25
A101-600	XL	100/cs	\$319.50

Spunbound Beard Covers

Controls facial hair to decrease contamination.

Single use.

Features elastic band with ear loops.

Material: Spunbound Polypropylene (PPSB)

Size: 18 inches; Color: White

Qty: 100/Bag; 10 Bags/Case



Part No.	Description	Qty	List
A145-003	Polypropylene, 16 x 9"	1000/cs	\$65.28

Latex Free Beard Covers

The Advantage I Latex-Free beard covers offer full coverage with a comfortable elastic band for a secure all day fit.

Applications: Medical, cleanroom, critical environment, food handling/production, industrial manufacturing.

Latex-Free.

17" x 9" when stretched.



Part No.	Description	Qty	List
A125-165	Non-Woven, Polypropylene Spunbounded Fabric	500/cs	\$102.76

Nylon Net Beard Covers

These beard nets are made of flame-retardant 1/8" nylon netting. They are designed to easily slip on and be held in place with a comfortable elastic back. Latex-Free.

Applications: Food handling/production, industrial manufacturing.



Part No.	Description	Qty	List
A125-167	Latex Free, Universal	1000/cs	\$174.98

Polypropylene Beard Covers

White

24 x 28"



Part No.	Description	Qty	List
A210-522	Polypropylene, 24 x 28"	1000/cs	\$55.74



Help keep your lab organized.

See pages 400-402 for different options.



BOUFFANT CAPS

Bouffant Caps

Kimberly-Clark™ Kleenguard™ A10 - The fabric is made of lightweight spunbound material. These white, disposable bouffant caps are a popular choice for food processing, general maintenance and manufacturing and are not made with natural rubber.

This model features an elasticized opening.

Designed for use when workers are in temporary contact with dirt, grime and dust.

Kleenguard™ A10 fabric is five layers of stacked barrier protection (SMMMS) against hazardous particles, offering economical protection.

Lightweight, breathable fabric provides a cool, comfortable work environment.



Part No.	Description	Qty	List
A101-329	24" White; (L)	450/cs	\$152.03
A101-328	21" White; (M)	600/cs	\$207.66
A101-322	24" White; (L)	1000/cs	\$117.25
A101-321	21" White; (M)	1000/cs	\$117.25

Spunbound Bouffant Cap

Caps prevent hair and other particulates from contaminating the work environment. Roomy bouffant styling ensures a non-binding fit.

Heavy Duty Elastic band.

Part No.	Description	Qty	List
A145-009	21" White	1000/cs	\$63.24
A145-010	24" White	1000/cs	\$70.40
A145-011	28" White	1000/cs	\$105.08
A145-012	21" Blue	1000/cs	\$63.24
A145-013	24" Blue	1000/cs	\$70.40



Polypropylene Bouffant Cap

Caps prevent hair and other particulates from contaminating the work environment. Roomy bouffant styling ensures a non-binding fit.

Heavy Duty Elastic band.

Part No.	Description	Qty	List
A210-543	21" Blue	1000/cs	\$60.10
A210-544	24" Blue	1000/cs	\$62.32
A210-545	21" White	1000/cs	\$60.10
A210-546	24" White	1000/cs	\$62.32



Hairnet (Nylon, Honeycomb)

The Latex-Free Honeycomb hairnets are made of flame-retardant 1/8" nylon netting. A latex-free elastic band keeps the hair net securely in place without the need for twisting or tying.

Color: White, Brown or Black

Packaging: 100 nets per polybag, 10 polybags per case, total 1,000 per case

Applications: Food handling/production, industrial manufacturing



Part No.	Description	Qty	List
A125-154	24" White	1000/cs	\$220.30
A125-155	24" Black	1000/cs	\$387.67
A125-153	21" Brown	1000/cs	\$251.93
A125-148	18" White	1000/cs	\$160.61
A125-151	21" White	1000/cs	\$166.27
A125-152	21" Black	1000/cs	\$304.50
A125-149	18" Black	1000/cs	\$244.93
A125-156	24" Brown	1000/cs	\$258.93
A125-150	18" Brown	1000/cs	\$244.93

LABORATORY COATS

Lab Coats

Sunlite Ultra™ SMS barrier fabric is a unique trilaminate construction that offers a high tensile strength and toughness that is also soft, drapable and easy to work with. SMS provides a fluid and particulate barrier to protect the worker without sacrificing mobility and comfort. Garments constructed of SMS fabric are strong and durable, yet offer outstanding comfort, breathability, softness and wearability. SMS is lightweight and resistant to tears and punctures. Lightweight.

Provides fluid and particulate barrier.

Appearance of natural fiber fabric.

Offers breathability, comfort and softness.

Ideal for medical, laboratory and dental applications.

Snap front, knit collar & cuffs, knee length, Ceil Blue.



Part No.	Description	Qty	List
A210-076	Small	30/cs	\$108.18
A210-075	Medium	30/cs	\$108.18
A210-074	Large	30/cs	\$108.18
A210-077	X-large	30/cs	\$108.18

SMS Lab Coat

This durable and comfortable lab coat provides protection from dry particulates and water-based liquids.

Features a knit collar and cuffs for added comfort, 5-snap closure and three pockets.

Breathable.

Color: Purple

Closure Type: Snap

Material: SMS (Spunbound Melt-Blown Synthetic)

Applications: Protects from dust, dirt, grime and Water based liquids



Part No.	Description	Qty	List
A145-088	Small	30/cs	\$90.10
A145-089	Medium	30/cs	\$90.10
A145-090	Large	30/cs	\$90.10
A145-091	X-Large	30/cs	\$91.80
A145-092	2X-Large	30/cs	\$91.80
A145-093	3X-Large	30/cs	\$95.20

Lab Coats

Kimberly-Clark™ Basic™ Lab Coats from Kimberly Clark™

Each unisex lab coat is made of a 3-layer SMS (nonwoven) fabric, which provides comfort and protection from light fluid contact.

Knit cuff and collar for greater protection and coverage.

These protective lab coats have 4 snaps in the front and 2 reinforced pockets.



Part No.	Description	Qty	List
A101-034	White; Small	25/cs	\$193.75
A101-035	White; Medium	25/cs	\$193.75
A101-036	White; Large	25/cs	\$193.75
A101-037	White; X-Large	25/cs	\$193.75
A101-038	White; 2X-Large	25/cs	\$193.75

Cleanroom Lab Coats

Kimberly-Clark™ Kimtech Pure™ A7 Enhanced chemical and biological protection (passes ASTM F1670 for penetration of blood and body fluids) so that you can protect your people and processes from liquid splashes. Low lint to reduce contamination risk; they have an anti-static treatment.

High collar for increased neck protection and thumb loops to maintain glove and garment interface.



Part No.	Description	Qty	List
A102-306	Small	30/cs	\$159.75
A102-307	Medium	30/cs	\$159.75
A102-308	Large	30/cs	\$159.75
A102-309	X-Large	30/cs	\$213.00
A102-310	2X-Large	30/cs	\$165.00
A102-311	3X-Large	30/cs	\$186.75
A102-312	4X-Large	30/cs	\$192.00



Tyvek® Labcoats

Tyvek® labcoats are composed of flash spun high density polyethylene which creates a unique, nonwoven material available only from DuPont. Tyvek® labcoats provides an ideal balance of protection, durability and comfort of any limited use fabric technology. The Tyvek® labcoat fabric offers an inherent barrier against particles down to 1.0 micron in size. Protection is built into the fabric itself; there are no films or laminates to abrade or wear away. Tyvek® labcoat fabric's durability advantage over microporous film fabrics and delivers consistently better barrier, even after wear and abrasion. Applications include: asbestos and lead abatement/remediation, general operations such as maintenance, spray painting, general clean-up.

Labcoats provide body-length jacket design with front snap closures for easy donning and doffing.

Labcoat extends to knee.

Ideal for situations that do not require the full body coverage of a coverall.

Laydown collar.

Elastic opening for tighter fit at wrist.



Part No.	Description	Qty	List
A210-837	Medium	30/cs	\$186.00
A210-836	Large	30/cs	\$186.00
A210-838	X-Large	30/cs	\$186.00
A210-832	2X-Large	30/cs	\$197.16
A210-833	3X-Large	30/cs	\$208.98
A210-834	4X-Large	30/cs	\$225.70
A210-835	5X-Large	30/cs	\$248.28

White Laboratory Coats

Knee-length lab coats made of easy care white cotton blend fabric (65% polyester, 35% cotton). Our coats feature one upper left breast pocket, two roomy lower pockets, side pocket slit openings and a sewn-down back belt.

* Women's sizes correspond to women's dress sizes.

Mens

Part No.	Description	Qty	List
A665-017	X-Small, Size 34	1/ea	\$55.77
A665-015	Small, Size 36	1/ea	\$56.44
A665-014	Medium, Size 40	1/ea	\$56.44
A665-013	Large, Size 44	1/ea	\$56.44
A665-016	X-Large, Size 48	1/ea	\$57.56
A665-018	2X-Large, Size 50	1/ea	\$70.54
A665-012	3X-Large, Size 52	1/ea	\$65.58

Womens*

Part No.	Description	Qty	List
A665-011	Small, Size 4-6	1/ea	\$40.81
A665-010	Medium, Size 8-10	1/ea	\$40.81
A665-009	Large, Size 12-14	1/ea	\$40.81



Tie-dyed Laboratory Coats

Featuring a vibrant tie-dyed pattern, these knee length coats are made of easy care 100% cotton. Coats feature one upper left breast pocket, two roomy lower pockets, side slit openings and a sewn-down back belt.

Part No.	Description	Qty	List
A665-007	Small	1/ea	\$67.97
A665-006	Medium	1/ea	\$71.03
A665-005	Large	1/ea	\$74.07
A665-008	X-Large	1/ea	\$79.10
A665-004	2X-Large	1/ea	\$86.27



**Add a little more protection with Splash Shields.
You can find some popular options on page 527.**

COVERALLS

Breathable Back Coverall w/Thumb Hole

Kimberly-Clark™ Kleenguard™ A40 Liquid and Particle Protection Coveralls with Blue Breathable Back are made of microporous film laminate with a thumb hole, hood, zipper front and elastic wrists and ankles. These coveralls offer better liquid and particulate barrier than TYVEK®. Made to keep out debris, dry particulates and liquid splashes. A40 Kleenguard™ protective suits pass NFPA 99 criteria for antistatic materials.



Part No.	Description	Qty	List
A101-264	White; Small	.25/cs	\$211.25
A101-419	White; Medium	.25/cs	\$206.88
A101-408	White; Large	.25/cs	\$145.92
A101-342	White; XL	.25/cs	\$188.75
A102-188	White; 2XL	.25/cs	\$113.75

Tyvek® Non-Woven Coveralls

DuPont® Tyvek® is a unique, non-woven material made of high-density polyethylene filaments that are spunbonded together by heat and pressure. DuPont Tyvek is the garment of choice for dust and dirt cleanup, asbestos removal, lead abatement, paint spraying, light splash, maintenance, general cleanup and clean-room tasks. Collar, elastic wrists and elastic ankles. Front zipper closure. Tyvek holds out 97% of asbestos, 99% of bacteria and 98% of ambient particles. Tear, puncture and penetration-resistant. Lightweight and breathable. Chemically and biologically inert. Garment meets ANSI Standard 101-1996 sizing standard.



Part No.	Description	Qty	List
A111-001	Small	.25/cs	\$203.09
A111-002	Medium	.25/cs	\$203.09
A111-003	Large	.25/cs	\$203.09
A111-004	X-Large	.25/cs	\$203.09

Coveralls

Suntech™ coveralls are a microporous film laminate material bonded to a substrate of spunbonded polypropylene providing barrier protection, comfort and strength. Available in a small to 5X-Large. These coveralls come in white with a zipper in the front, no hood.



Part No.	Description	Qty	List
A210-441	Small	.25/cs	\$86.68
A210-440	Medium	.25/cs	\$86.68
A210-439	Large	.25/cs	\$86.68
A210-442	X-Large	.25/cs	\$86.68
A210-434	2X-Large	.25/cs	\$86.68

Microporous Coveralls w/Hood & Boots

Attached hood and boots give added protection. Microporous fabric breathes while still offering protection in general purpose applications. Zipper front, elastic hood and wrists, attached boots, white.



Part No.	Description	Qty	List
A145-021	Medium	.25/cs	\$119.87
A145-022	Large	.25/cs	\$119.60
A145-023	X-Large	.25/cs	\$122.40
A145-024	2X-Large	.25/cs	\$122.40
A145-025	3X-Large	.25/cs	\$128.37
A145-026	4X-Large	.25/cs	\$128.37



Protective Coveralls w/Hood & Boots

These coveralls have a zipper in the front with an attached hood, Tyvek FC® coated boots and elastic wrists. White.



Part No.	Description	Qty	List
A210-880	Small	25/cs	\$218.00
A210-881	Medium	25/cs	\$218.00
A210-882	Large	25/cs	\$218.00
A210-883	X-Large	25/cs	\$218.00
A210-884	2X-Large	25/cs	\$231.08
A210-885	3X-Large	25/cs	\$244.94
A210-886	4XL-Large	25/cs	\$264.54
A210-887	5XL-Large	25/cs	\$291.00

Breathable Particle Protection Coveralls

Kimberly-Clark™ Kleenguard™ A20 - These protective garments offer superior particle holdout coupled with unmatched comfort attributes. The A20 fabric is comprised of five layers of stacked barrier protection (SMMMS) against hazardous particles. Features to provide more protection include the seamless front (for primary exposure area), 1 inch zipper flap, hood, boots and elastic back, wrists and ankles. They feature reflex design, which offers excellent fit (with elastic back) and freedom of movement. The seamless front provides more protection to the primary exposure area. They are a popular choice for dusty environments such as laboratories and remediation, as well as pesticide applications and as decontamination modesty garments. Kleenguard™ A20 are designed to protect against dirt, grime and dust and are made with breathable Microforce™ barrier fabric.

Passes NFPA 99 for antistatic materials.

Kleenguard™ A20 Coveralls meet the EPA Agricultural Worker Protection Standard (WPS) requirements for "coveralls".



Part No.	Color	Size	Qty	List
A101-569	White	Medium	24/cs	\$235.11
A101-356	White	Large	24/cs	\$177.11
A101-571	White	X-Large	24/cs	\$235.11

Chemical Spray Protection Coveralls

Kimberly-Clark™ - The Kleenguard™ A70 protective garments are made of a 1.5 mil polyethylene-coated fabric, which is resistant to many water-based liquids, greases, oils and liquid chemical splashes. They feature a wick-away lining for enhanced comfort, a liquid-resistant, extra-long zipper and a taped, sealable zipper flap. The seamless front gives the wearer more protection in the primary exposure area and the reflex coverall design offers excellent fit and freedom of movement. This model comes with a hood and boots, zipper front (with storm flap) and elastic wrists.

Passes NFPA 99 for antistatic materials.

The seamless chest area (primary splash zone) and bound seams give extra protection.

Zipper Front, Storm Flap, Elastic Wrists, Hood & Boots.



Part No.	Color	Size	Qty	List
A101-168	Yellow	Medium	12/cs	\$203.10
A101-169	Yellow	Large	12/cs	\$442.05
A101-170	Yellow	X-Large	12/cs	\$203.10
A101-178	Yellow	2X-Large	12/cs	\$210.90
A101-172	Yellow	3X-Large	12/cs	\$228.30
A101-173	Yellow	4X-Large	12/cs	\$241.80
A101-174	Yellow	3X-Large	12/cs	\$241.80

Light Duty Coveralls

Kimberly-Clark™ Kleenguard™ A10 Protective wear designed for entry-level protection from hazardous dust and feature a zipper front, attached hood and boots, serged seams and elastic wrists. The fabric is made of five layers of stacked barrier protection, for a lightweight, breathable protective coverall. These white, disposable coveralls are a popular choice for food processing, general maintenance and manufacturing. Kleenguard™ A10 fabric is five layers of stacked barrier protection (SMMMS) against hazardous particles, offering economical protection.

Meets ANSI/ISEA 101-1996 sizing standards.



Part No.	Color	Size	Qty	List
A101-188	White	Large	25/cs	\$113.75
A101-189	White	X-Large	25/cs	\$113.75
A101-198	White	2X-Large	25/cs	\$108.13
A101-190	White	3X-Large	25/cs	\$133.13
A101-193	White	4X-Large	25/cs	\$112.50

EARPLUGS

w/Cord

MAX® 30 - The world's most-used polyurethane foam earplug.
 Bell shape delivers maximum in-ear comfort.
 Contoured design is easier to insert & resists tendency to back-out of ear canal.
 Polyurethane foam enhances comfort, especially for long-term wear.
 Smooth, soil-resistant closed cell-foam skin prevents dirt build-up.



Part No.	Description	Qty	List
S833-624	w/Cord	100/bx	\$104.54

Uncorded Earplugs

Made with bright, soft tapered foam for all day wear with great hearing protection.
 3M™ Nitro™ Tattoo™ Uncorded Earplugs are hearing protectors with the next generation of workers in mind.
 Are available in bright colors and designs and they offer the same protection and quality you can expect from 3M™.
 Ultra-soft foam is tapered for easy insertion and comfort.
 Includes an assortment of colors, including orange, red, pink and purple.
 Corded for easy short term storage around the neck.
 Noise Reduction Rating (NRR)*: 32 dB CSA. Class AL.
 Test compatible with 3M™ E-A-Rfit Validation System.
 3M™ is Leading the Advancement of Hearing Conservation.



Part No.	Description	Qty	List
S840-999	w/Out Cord	2000/cs	\$102.22

Cloth Corded Earplugs NRR 26

3M™ Tri Flange™ Cloth cord connects earplugs.
 Triple-flanged, premolded design.
 Livewire stem fused with flanges looks cool, inserts easily and fits comfortably.
 Noise Reduction Rating (NRR)*: 26 dB CSA Class AL.



Part No.	Description	Qty	List
S841-002	Cloth Corded Earplugs	100/pk	\$422.17

Multiple-Use Earplugs

AirSoft® Advanced air pocket design features internal noise-blocking fins.
 Four-flange profile creates better seal in the ear canal.
 Less pressure in the ear canal eliminates that “plugged up” feeling.
 Rounded flanges, tapered shape fits better in the ear canal.
 Firm stem facilitates easy insertion and removal.
 Outstanding noise-blocking protection.
 Regular size.
 Tested to ANSI S3.19-1974.



Part No.	Description	Qty	List
S833-595	Red Polycord, Polybag	100/bx	\$431.08

Foam Earplugs

Moldex® Goin' Green® Made of extra-soft, extra light foam. Their tapered shape fits easily in the ear canal, allowing them to seal gently and snugly without pressure. Outer surface of the earplug is smooth, so it doesn't irritate the ear canal. They're so comfortable you'll forget you're wearing earplugs.
 100% PVC-Free®.
 Highest independently tested NRR 33.
 250 pairs per dispenser.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
S825-173	Goin' Green® PlugStation®	1/ea	\$151.60	6/cs	\$706.60



Foam Ear Plugs

Pura-Fit® ear plugs are tapered so they are easier to insert in any size ear canal, longer and easier to grasp. Pura-Fit® is designed for increased compliance and fewer complaints. The special foam is formulated for softness and comfort and the outer surface is smooth, so it doesn't irritate the ear canal. NRR 33. highest independently tested NRR available. Pura-Fit® is independently tested to ANSI S3.19-1974 by Michael & Associates, Inc., State College, PA. So you know you're getting excellent protection against industrial noise. 100% PVC-Free®. Improved, softer foam for maximum comfort. Hygienically packaged in biodegradable paper pouches. Look for the bright green color as a symbol of Moldex quality.



Part No.	Description	Qty	List
S825-255	Pura-Fit®, Uncorded	200/bx	\$115.77

Detectable Earplug

SmartFit™ - Delivers superior comfort and a truly personalized fit [visual/metal detectable]. Conforming Material Technology adapts to the shape of the surrounding ear canal when in your ear and returns the earplug to its original shape when removed. Delivers superior comfort and a truly individual fit. Simplifies inventory control - a single product can fit almost every wearer. Blue color provides high visibility in detection. Metal ring on stem detectable by automated equipment.



Part No.	Description	Qty	List
S833-650	Detectable Earplug	100/bx	\$500.16

Earmuffs (29dB Protection)

These earmuffs provide excellent hearing protection in a comfortable, compact design. The foam lined cups offer comfort for extended wear. An over-the-head band allows for cup height adjustment and ensures proper alignment for maximum performance. NRR. 29dB ANSI S12.6-1984. Applications: Construction, machining, milling, industrial, laboratory and similar industries requiring ear protection.



Part No.	Description	Qty	List
A125-429	Red Earmuff 29dB	1/ea	\$15.30

FACE MASKS

Face Mask w/Ear Loops – Pleat Style

Kimtech Pure™ M5 Face Mask has a three-layer design of polyester/cellulose inner/outer facing which provides comfort. Blue.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
A101-010	Face Mask w/Ear Loops	50/pk	22.92/pk	500/cs	\$229.23

Cone Masks

Kimberly Clark™
10.040 X 14.540 X 8.070



Part No.	Description	Qty/cs	List/cs
A101-805	Blue / Regular	300/cs	\$237.80

Face Masks (Ear Loops)

The ear loop masks are made of soft, non-woven polypropylene. The 3-ply pleated design offers 0.05 micron filtration at greater than 99%. A full length flat aluminum wire forms comfortably to the nose and face to maintain an excellent fit for maximum filtration. Masks are fluid resistant and disposable. The ear loop mask fits snugly around the ears with elastic loops. Masks are latex free. Blue.



Part No.	Description	Qty	List
A125-109	Face Masks (Ear Loops)	50/pk	\$13.02

Non-Woven Face Mask

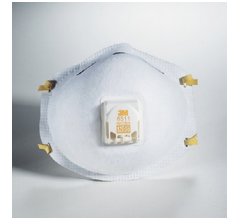
3-Ply masks are designed for comfort. Ideal for various medical/lab procedures.
Earloop.
Blue.



Part No.	Description	Qty	List
A145-120	Non-Woven Face Mask	500/cs	\$62.24

Particulate Respirators, N95

Designed to help provide comfortable, reliable worker respiratory protection against certain non-oil based particles in suggested applications including grinding, sanding, sweeping, bagging and other dusty operations. Lightweight construction helps promote greater worker acceptance and comfort. Features 3M™'s Advanced Electret Media, welded strap attachment, soft nose foam and adjustable nose clip to help provide a custom and secure seal. NIOSH Approval TC-84A-0007.



Part No.	Description	Qty	List
S841-649	Particulate Respirator	10/bx	\$69.40

Sterile Face Masks with Soft Ties - Pleat Style

Kimberly-Clark™ Kimtech™ Pure™ M3 Sterile Pleat-Style Masks (10 Bags of 20), 9" / One Size, White
Ultra sonically bonded ties and a fully enclosed, soft, bendable nosepiece.
Made of a low-linting polyethylene outer layer and a soft inner-facing fabric; gamma irradiated with sterility . Assurance Level of 10-6.
Recommended for ISO Class 3 and higher clean room environments.



Part No.	Description	Qty	List
A101-007	Sterile Masks, White, 9" Soft Ties	200/cs	\$247.00

Exhalation Valve Disposable Respirator Masks

3M™ 8210V N95 - face mask for dependable performance and superior protection.
Reliable protection – outstanding comfort.
Supply workers doing grinding, sanding or bagging with this reliable N95 particulate respiratory protection, with braided comfort strap and Cool Flow™ exhalation valve from 3M™.
Comfortable respirator delivers consistent performance.
Provides a minimum 95% filter efficiency against certain non-oil based aerosol particulates.
Innovative 3M™ Cool Flow™ exhalation valve reduces heat and humidity for extended use.
Maintenance-free construction features adjustable noseclip with foam strip to reduce the potential for eyewear fogging.
Special filter material is designed for ease of breathing.
Protects respiratory system while grinding, sanding or bagging.
Features soft, yet durable braided comfort straps that won't tangle or pull on hair.
Not recommended for asbestos or sandblasting.
NIOSH approved.



Part No.	Description	Qty	List
S841-643	8210V N95 Disposable Respirator Masks	10/bx	\$46.44

Full Facepiece Reusable Respirator - Large

Reliable, convenient, compatible respiratory protection: The 3M™ 6000 series full facepiece reusable respirator offers versatility for many environments and applications and helps provide respiratory protection against a wide variety of gases and vapors when used with approved cartridges and filters.
Bayonet Connection Fitting System.
Soft, Non-Allergenic Elastomeric Facepiece.
Extremely Lightweight.
Full Face Lens with Broad Field of Vision that is Scratch Resistant.
Four Strap Head Suspension.



Part No.	Description	Qty	List
S840-871	Full Facepiece Resusable Respirator	1/ea	\$526.80



Half Facepiece Disposable Respirator Assembly, Organic Vapor, Large

3M™ Disposable, convenient, ideal for intermittent use.

NIOSH approved against certain organic vapors. Use in a variety of workplace applications, including petrochemical, chemical manufacturing, construction, transportation and electronics.

When properly fitted, helps provide respiratory protection from certain organic vapors at concentrations up to 10 times the Permissible Exposure Limit (PEL). Not for use in environments that are immediately dangerous to life or health (IDLH).



Part No.	Description	Qty	List
S840-836	Organic Vapor Respirator, Large	1/ea	\$62.32

Organic Vapor Cartridge

NIOSH approved for protection against certain organic vapors.

Swept-back design allows an enhanced field of view and comfort.

Bayonet compatibility allows use with many 3M™ half and full facepiece designs.

Wide range of applications reduces inventory needs.

Simple installation and usage requirements reduces training requirements.

NIOSH approved against certain organic vapors. Use with 3M™ Half and Full Facepieces 6000, 7000 and FF-400 Series with bayonet filter holders.

The 3M™ Organic Vapor Cartridge 6001 helps provide organic vapor protection in a variety of environments. The cartridge may be used for vapor concentrations up to 10 times the Permissible Exposure Limit (PEL) with half facepieces or 50 times PEL with quantitatively fit tested full facepieces. Recommended applications for the cartridge include assembly and mechanical, batch-charging, change-overs, chemical dispensing, clean-up, cleaning, painting, parts cleaning and seal coating. Inventory needs and training requirements for safety equipment are reduced because this respirator cartridge selection works for many different applications. Industries in which this cartridge is commonly used include chemicals, construction, oil and gas and transportation.

The cartridge is NIOSH (National Institute for Occupational Safety and Health) approved for environments containing certain organic vapors. The cartridge has been assigned the color code "black" in the NIOSH system.



Part No.	Description	Qty	List
S840-838	Organic Vapor Cartridge	2/pk	\$37.63

Organic Vapor Cartridge/Filter, P100

NIOSH approved for protection against certain organic vapors and particulates.

Swept-back design allows an enhanced field of view and comfort.

Bayonet compatibility allows use with many 3M™ half and full facepiece designs.

Wide range of applications reduces inventory needs.

Simple installation and usage requirements reduce training needs.

NIOSH approved against certain organic vapors and particulates. Use with 3M™ Half and Full Facepieces 6000, 7000 and FF-400 Series with bayonet filter holders.

The 3M™ Organic Vapor Cartridge/Filter 60921 P100 helps provide protection against certain organic vapors and particulates in a variety of environments. The cartridge/filter combination may be used for respiratory protection from certain organic vapors and non-oil and oil particulate concentrations up to 10 times the Permissible Exposure Limit (PEL) with half facepieces or 50 times PEL with quantitatively fit tested full facepieces. This cartridge/filter is not for use in environments that are immediately dangerous to life or health (IDLH).

Recommended applications for the cartridge/filter include chemical clean-up, chemical compounding, chemical transfer, laboratories and pesticide application. Inventory needs and training requirements for safety equipment are reduced because this respirator cartridge selection works for many different applications. This cartridge/filter is commonly used in the following industries: agriculture, chemicals, mining, oil and gas, pharmaceuticals and primary metals.

The cartridge/filter is NIOSH (National Institute for Occupational Safety and Health) approved for environments containing certain organic vapors and non-oil and oil particulates. The cartridge/filter has been assigned the color code "Magenta/Black" in the NIOSH system.



Part No.	Description	Qty	List
S840-842	Organic Vapor Filter Cartridge	2/pk	\$83.66

Multi Acid Gas/Organic Vapor Cartridge

NIOSH approved against certain organic vapors, acid gases, ammonia, methylamine or formaldehyde.

Use with 3M™ Half and Full Face pieces 6000, 7000 and FF-400 Series with bayonet filter holders.



Part No.	Description	Qty	List
S840-840	3.4 x 4.2" Cartridge	2/pk	\$45.05

Half Mask Respirator

Adjustable head harness provides excellent fit and comfort over long shifts. The Cool Flow™ valve helps reduce heat and moisture, for better comfort and easier breathing. With a light, comfortable silicone face seal. Quick Latch mechanism permits easy on and off; no need to remove your hard hat or face-shield as you move in and out of contaminated areas.

Size: Medium
 Connection: Bayonet
 Material: Silicone
 Configured For: Dual Cartridges
 Harness Material: Polyester/Spandex
 Standards: NIOSH, 42 CFR 84



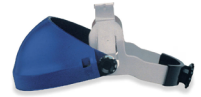
Part No.	Description	Qty	List
S841-461	Respirator	1/pk	\$73.04

FACE SHIELDS

Thermoplastic Partial Crown Headgear

Deluxe Ratchet Suspension and five-position Pin-Lock crown strap.

Color: Blue
 Shield: Sold Separately



Part No.	Description	Qty	List
S840-959	Blue Partial Crown	1/pk	\$54.74

Model K Headgear

When you need headgear to hold your necessary face shield, the Jackson Safety™ K-Facesaver is a good choice. This Model K Ratchet headgear features a spark deflector and secures 12" or 15.5" face shields (also made by the Jackson Safety™ Brand). It also has a soft, absorbent wrap-around foam cushioned sweatband to gently hug the natural shape of the wearer's head.

Black, made of HDPE (high-density polyethylene).
 Absorbent wrap-around foam cushioned sweatband.
 CSA Z94.3 compliant.



Part No.	Description	Qty	List
A102-019	20 x 17.25 x 3.75"	60/cs	\$849.00

F20 Polycarbonate Face Shield

Designed to provide on-the-job protection for heat applications, as well as for grinding, flying debris and splashes. Made of durable polycarbonate, the face protection shield measures 8" (tall) x 15.5" (wide) x .06" (thick) and may be used again (depending on the task). The clear faceshield allows for maximum light transmission and visibility and is designed for use in light industrial manufacturing, general splash protection, landscaping and food processing. This face shield has a D3 rating for splash protection and the polycarbonate material provides 99.9% UVA/UVB/UVC protection. It's compatible with the Jackson Safety™ Hard Hat Interchange System. It snaps into place on compatible head gear and hard hats – no special tools required. This model is unbound. When used with any Jackson Safety™ Brand Headgear, this clear polycarbonate faceshield meets the performance standards of ANSI Z87.1+ for high-impact protection and is CSA Z94.3 compliant (when used with compatible Jackson Safety™ headgear).
 Compatible with the Jackson Safety™ Hard Hat Interchange System; No special tools needed.



Part No.	Description	Qty	List
A101-606	8 x 15.5 x .060"	36/cs	\$249.30



Other Face Shield Options are Available!



Face-Shield Visor for Headgear

Polycarbonate allows high clarity and is ideal for heavy-duty impact and heat-resistance applications.

Visor Width: 14-1/2"
 Visor Height: 9"
 Color: Clear
 Thickness: 0.080"
 Coating: No
 Dielectric Protection: No



Part No.	Description	Qty	List
S841-444	Clear Face-Shield	1/ea	\$25.57

Face Shield

Full length face shield with Velcro® band, 7 mil shield thickness. One size fits all.



Part No.	Description	Qty	List
A210-024	Face Shield	100/cs	\$302.32

Face Shield

Guardall Shield Full length or 3/4" length visor equipped with a foam band and headband resistant to fogging.



Part No.	Description	Qty	List
A102-194	Full Length Visor	40/cs	\$194.79
A102-195	3/4" Visor	40/cs	\$249.13

F10 PETG Face Shield

Made of PETG (thermoplastic polymer resin).

Compatible with the Jackson Safety™ hard hat interchange system; no special tools needed to snap into place. Clear faceshield allows for maximum visible light transmission.

Meets ANSI Z87.1-2010 standards when used with any Jackson Safety™ brand headgear.

Affordable, disposable and recyclable face protection.



Part No.	Description	Qty	List
A101-622	Clear, 9 x 15.5 x 0.40"	50/cs	\$473.75
A101-623	Clear, 9 x 15.5 x 0.40"	50/cs	\$288.65
A101-652	Clear, 8 x 15.5 x 0.40"	100/cs	\$255.00
A101-649	Green, 8 x 15.5 x 0.40"	36/cs	\$235.80

Combo Ear Loop Mask & Eye Shield

One size fits all. Case Pack: 100 (4 boxes of 25)



Part No.	Description	Qty	List
A210-001	One Size	100/cs	\$193.06

Accidents happen, so it's always good to be prepared.
 We have a variety of safety equipment and supplies
 for just those situations.
 See page 530 for some of the wash stations we offer!



GLASSES

Safety Eyewear

V10 Element™ - Lightweight popular styling with an economical price.
 Universal nose bridge for comfort.
 100% polycarbonate (no rubber, metal or other components).
 Dielectric1, thermoplastic construction.
 Visible Light Transmittance (VLT): 55% (applies to product code G440-218 only).



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
G440-179	Safety Eyewear	1/ea	2.69/ea	12/cs	\$32.27

Safety Glasses

V10 Unispec* II - Clear lenses with clear temples.
 Low-cost wraparound protection that fits over most prescription eyewear.
 Metal-free design with screw-less hinges.
 Clear lenses allow maximum visible light transmission; ideal for indoor use.
 Lenses are made of a polycarbonate material that provides 99.9% UVA/UVB/UVC protection.
 Meets ANSI Z87.1+ standards for impact and certified to meet the requirements of CSA Z94.3.



Part No.	Description	Qty	List
G440-182	Safety Glasses	50/cs	\$132.50

Safety Goggles

When you need comfortable splash protection goggles at an economical price point, look no further than the Jackson Safety™ V80 SG34 Safety Goggles. They have a soft, pliable frame for enhanced fit and comfort, with button vents for indirect ventilation and splash protection. They fit over most prescription eyeglasses and the headband buckles are located toward the rear of the frame to limit interference with peripheral vision on the job. The clear lenses (with green frame) allow maximum visible light transmission and are ideal for indoor use. The SG34 splash goggles' polycarbonate lenses provide 99.9% UVA/UVB/UVC protection and they meet the ANSI Z87.1+ standards for impact with a D3 rating for droplet and splash protection. For affordable splash protection you can trust, choose Jackson Safety's V80 SG34 Safety Goggles.



Part No.	Description	Qty	List
G440-042	Clear Hardcoated Safety Goggles, Universal Size	200/cs	\$775.00

Clear Anti-Fog Lens

The BearKat's® super well thought-out construction combines the best in safety, comfort and affordability! Your vision is unobstructed by the one-piece wraparound lens, which by its tight fit allows you maximum safety. Comfort is enhanced by the flexible temples and the non-slip temple sleeves are notched for a clip-on breakaway cord.



Part No.	Description	Qty	List
S827-907	Clear Anti-Fog Lens	1/ea	\$7.06

VPC Safety Goggles

Jackson Safety™ V80 MonoGoggle™ - Each pair features indirect ventilation along with two additional baffled ports for increased airflow and minimized fogging and condensation. The headband buckles are located toward the rear of the goggles to limit peripheral vision interference. The lenses are clear (with a bronze frame), making them ideal for indoor use and maximum light transmission and they fit over most prescription eyeglasses. The polycarbonate lenses are hard coated for scratch resistance and longer life and they provide 99.9% UVA/UVB/UVC protection. The splash safety goggles meet the ANSI Z87.1+ standards for impact with a D3 rating for droplet and splash protection. Lenses are larger than other Monogoggle™-style goggles to comfortably fit over larger prescription eyeglasses; features adjustable headband buckles for a snug fit.
 Wider nose piece to fit over most half mask respirators and hard coated lens scratch resistance and longer life.



Part No.	Description	Qty	List
G440-035	Clear, Anti-Fog, Universal	36/cs	\$497.44



Safety Glasses

The Defender safety glasses feature a classic lightweight wrap around protection. The frames come in a variety of colors and are adjustable at the temple for a comfortable, custom fit. The molded nose bridge prevents slipping. 99.9% UV protective, scratch resistant lenses. ANSI Z87.1-1988. Black frame, clear lens.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
A125-480	Black Frames	1/ea	\$5.69	12/pk	\$68.28
A125-481	Blue Frames	1/ea	\$5.69	12/pk	\$68.28

Safety Glasses

The super-lightweight Checkmate® 2 provides near total eye orbital seal and features flexible bayonet temples, gel temple sleeves and universal gel nosebridge, ensuring compliance and comfort for a variety of wearers.



Polycarbonate lens provides near total orbital seal.
 Flexible bayonet temple with non-slip, soft temple material.
 Exclusive Duramass® scratch resistant coating.
 Rugged polycarbonate lens filters 99.9% of harmful U.V. rays.
 Silver Nose Piece & Temple Sleeve, Clear Lens.

Lens Design:	Single	Ultraviolet Rays 0-385nm:	100%
Temple Color:	Smoke	Visible Rays 400-700nm:	14%
Nosepiece Type:	Gel	Infrared Rays 780-2000nm:	22%
Temple Soft Mat. Color:	Silver	ISO 12312-1 Blue Light:	14%
Temple Material:	Polycarbonate	ANSI Z87+:	Yes
VLT %:	90		

Part No.	Description	Qty	List
S828-550	Clear Lens; Scratch Resistant	1/ea	\$7.84

Safety Glasses

Jackson Safety™ V30 Nemesis™ - The wraparound frame has a base curve of 8 that extends the range of peripheral protection, as well as soft touch temples for comfort. The Nemesis™ safety glasses have a patented nose piece designed to be extremely flexible, to channel sweat away from the eyes and to help prevent slippage down the nose – all for long-term comfort.



Every pair includes a neck cord for reduced risk of damage when not being worn.
 Meets ANSI Z87.1+2010 standards for personal eye protection.
 Polycarbonate lenses provide 99.9% UVA/ UVB/UVC protection.



Part No.	Description	Qty	List
G440-196	Smoke Color; Mirror Lens Coating	12/cs	\$126.88
G440-194	Clear Color; Anti-Fog Lens Coating	12/cs	\$123.90

Accessories

Silicon-Free Lens Cleaning Tissues

Bel-Art™ - Keep a pop-up dispenser on the bench.
 Use these high-quality, lint-free tissues to quickly and easily clean glass and plastic lenses.
 Does not contain silicone.
 Will not scratch glass or plastic lenses.
 180 sheets in a pop-up dispenser pack.
 Each sheet is 10.8 x 11.4cm (4¼ x 4½”).



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
M440-591	Silicon-Free Lens Cleaning Tissue	180/pk	\$27.75	1800/cs	\$277.50

Cleanware Anti-Fog Lens Cleaner

Bel-Art™ - Economical, only one drop does the trick.
 Cleans glass and plastic lenses with only one drop while providing anti-static and anti-fogging protection.
 Can be used on microscopes.
 Supplied in a convenient 59ml (2oz) bottle with reclosable dispenser cap.
 Fluid can be dispensed in a single drop or stream onto lens.
 Fits easily in a pocket or purse.
 No Air Shipment.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
M440-592	Anti-Fog Lens Cleaner	2/pk	\$31.05	24/cs	\$372.60

Disposable Lens Cleaning Station

All-in-one station, tissues and cleaning solution.

8oz non-silicone fluid, 600 lens tissues.

This self-contained, disposable station combines cleaning solution and lens tissues. Fabricated of coated paperboard, the 14 x 21 x 21cm high (5⁵/₈ x 8¹/₄ x 8¹/₄") station has openings for wall mounting. 237mL (8oz) polyethylene spray pump bottle filled with non-silicone fluid protects, polishes, anti-stats and anti-fogs lenses.

Includes generous supply of 600 lens tissues 13 x 20cm (5 x 8").



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
M440-590	Disposable Lens Cleaning Station	1/ea	\$63.75	8/cs	\$510.10

LabLens Liquid, 1 Pint

Bel-Art™ - Lens cleaning solution in a 473mL (1 pint) polyethylene bottle with spray pump.

Bottle contains a non-silicone fluid.

Protects, polishes, anti-stats and anti-fogs glass and plastic lenses.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
M440-589	Lab Lens Liquid	1/ea	\$23.35	12/cs	\$280.20

Kleensite Disposable Lens Book

Special High Wet Strength.

Soft, Dust Free.

Will not scratch glass.

Ideal if liquid cleaners are used.



Part No.	Description	Qty	List
W430-006	4 x 6"	600/pk	\$25.96
W430-007	5 x 7"	2000/pk	\$34.70
W430-008	6 x 8"	1200/pk	\$37.00
W430-009	8 x 12"	100/pk	\$14.25

Lens Cleaning Station

Size 4.4" x 8.4"

Kimberly-Clark™ - Kimtech Science™ Lens Cleaning Station offers you an all-in-one kit for cleaning safety glasses conveniently and efficiently. Each box includes dry Kimwipes delicate task 1-ply wipers and a spray bottle containing cleaning solution. The cleaning solution is anti-static, anti-fog and silicone-free and the included Kimwipes delicate task wipers that won't scratch delicate surfaces when used wet.

Kimwipes Delicate Task Wipers are white, 1-ply and won't scratch delicate surfaces when used wet.

Included cleaning spray is anti-fog, anti-static and silicone-free spray solution.

Note: an IPA-based lens cleaning solution can degrade anti-fog coated eyewear over time.



Part No.	Description	Qty	List
W220-321	Pop-Up Box with 1120 1-Ply Tissues & 16 oz. Cleaning Spray	4/cs	\$132.17

GLOVES

FOXBRAND® Gloves

Fox Scientific Powder Free Gloves offer maximum protection for applications including general laboratory.

Industrial use only.

Micro textured.



Latex

Part No.	Description	Qty/bx	List/bx	Qty/cs	List/cs
G215-100	Small	100/bx	\$29.82	10bx/cs	\$232.60
G215-101	Medium	100/bx	\$29.82	10bx/cs	\$232.60
G215-102	Large	100/bx	\$29.82	10bx/cs	\$232.60
G215-103	X-Large	100/bx	\$29.82	10bx/cs	\$232.60

Nitrile

Part No.	Description	Qty/bx	List/bx	Qty/cs	List/cs
G255-100	Small	100/bx	\$44.37	10bx/cs	\$346.10
G255-101	Medium	100/bx	\$44.37	10bx/cs	\$346.10
G255-102	Large	100/bx	\$44.37	10bx/cs	\$346.10
G255-103	X-Large	100/bx	\$44.37	10bx/cs	\$346.10



Purple Nitrile* Exam

Kimberly-Clark™
 6 mil thickness.
 Textured fingertips.
 Beaded cuff.
 Natural rubber latex-free.
 Cleared for use in chemotherapy.



Part No.	Description	Qty/bx	List/bx	Qty/cs	List/cs
G440-236	X-Small	100/bx	\$18.12	10bx/cs	\$181.19
G440-237	Small	100/bx	\$18.12	10bx/cs	\$181.18
G440-238	Medium	100/bx	\$18.12	10bx/cs	\$181.18
G440-239	Large	100/bx	\$18.12	10bx/cs	\$181.18
G440-240	X-large	90/bx	\$18.12	10bx/cs	\$181.18

Powder Free Latex Exam Gloves

Microflex® Diamond Grip™ - Prevents rips and tears due to thicker fingertips than most standard latex gloves. Delivers a secure and dependable grip for rugged work settings especially in oily environments. Allows easy donning and a cooler, drier and more comfortable fit. Provides excellent protection for automotive industry applications.



Part No.	Description	Qty/bx	List/bx	Qty/cs	List/cs
G600-137	X-Small	100/bx	\$28.03	10bx/cs	\$280.30
G600-135	Small	100/bx	\$28.03	10bx/cs	\$280.30
G600-134	Medium	100/bx	\$28.03	10bx/cs	\$280.30
G600-133	Large	100/bx	\$28.03	10bx/cs	\$280.30
G600-136	X-Large	100/bx	\$28.03	10bx/cs	\$280.30

Powder Free Exam Gloves

Microflex® UltraSense® - The non-stick materials in UltraSense® gloves keep you clear of adhesives while still providing a precise grip. UltraSense® gloves are designed to provide enhanced tactile sensitivity and comfort, even during extended use. Excellent sensitivity when handling small parts or instruments. Non-stick properties resists tape and adhesives. Polymer-coated for easy donning.



Part No.	Description	Qty/bx	List/bx	Qty/cs	List/cs
G600-304	X-Small	100/bx	\$25.53	10bx/cs	\$255.30
G600-302	Small	100/bx	\$25.53	10bx/cs	\$255.30
G600-301	Medium	100/bx	\$25.53	10bx/cs	\$255.33
G600-300	Large	100/bx	\$25.53	10bx/cs	\$255.33
G600-303	X-Large	100/bx	\$25.53	10bx/cs	\$255.33

Nitrile Powder-Free Examination Gloves

Aurelia® Robust® blue nitrile powder-free examination gloves are made from our special Nitrile (NBR) compound, ambidextrous and non-sterile. Each batch of gloves is air-tested to detect pinholes. 5 mil thickness for improved puncture resistance and micro-textured finish delivers improved grip. Aurelia® gloves conform and are tested to the highest international standards.

Material: Nitrile (100% latex-free)
 Type: Non sterile
 Glove Design & Feature: Ambidextrous and finger textured
 Usage: For single use only
 Color: Sky Blue
 Thickness: 4.5 mil
 Packaging: 100 pieces per box / 10 boxes per case
 Automated packing to enhance single glove dispensing.
 Chemo-Rated.



Part No.	Description	Qty/bx	List/bx	Qty/cs	List/cs
G216-065	Small	100/bx	\$32.03	10bx/cs	\$320.30
G216-066	Medium	100/bx	\$32.03	10bx/cs	\$320.30
G216-067	Large	100/bx	\$32.03	10bx/cs	\$320.30
G216-068	X-large	100/bx	\$32.03	10bx/cs	\$320.30

Nitrile Powder-Free Examination Gloves

Aurelia® Protege® stretch nitrile powder free examination gloves are made from 100% nitrile, are ambidextrous, sky-blue in color and non-sterile. Best value nitrile gloves which fit and feel like latex gloves but are non-allergenic and lightweight with superior durability. Fingertip-textured finish even grips extra-thin objects. Greater chemical resistance compared to other materials and each batch of gloves is air-tested to detect pinholes. Aurelia® gloves conform and are tested to the highest international standards.
 Thickness: 4.0 mil
 Chemo-Rated. 100 per box.



Part No.	Description	Qty	List
G216-060	X-Small	10bxs/cs	\$235.00
G216-061	Small	10bxs/cs	\$235.00
G216-062	Medium	10bxs/cs	\$235.00
G216-063	Large	10bxs/cs	\$235.00
G216-064	X-Large	10bxs/cs	\$235.00

Nitrile Powder-Free Examination Gloves

Aurelia® Sonic®
 Material: Nitrile (100% latex-free)
 Type: Non sterile
 Glove Design & Feature: Ambidextrous and finger textured
 Cuff: Beaded
 Usage: For single use only
 Thickness: 2.2 mil
 Automated packing to enhance single glove dispensing.



Part No.	Description	Qty	List
G216-035	X-Small; Indigo	300/cs	\$333.33
G216-036	Small; Indigo	300/cs	\$333.33
G216-037	Medium; Indigo	300/cs	\$333.33
G216-038	Large; Indigo	300/cs	\$333.33
G216-039	X-Large; Indigo	270/cs	\$333.33

Latex Powder-Free Examination Glove

Aurelia® Vibrant® micro-textured powder free latex examination gloves are made from 100% natural rubber, ambidextrous, creamy beige color and non-sterile. Our advanced rinsing process improves quality and purity. Each batch of gloves is air-tested to detect pinholes. Aurelia® gloves conform and are tested to the highest international standards.
 Type: Non sterile
 Glove Design & Feature: Ambidextrous and micro textured
 Cuff: Beaded
 Usage: For single use only



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
G216-000	X-Small; White	100/bx	\$30.63	10bxs/cs	\$306.30
G216-001	Small; White	100/bx	\$30.63	10bxs/cs	\$306.30
G216-002	Medium; White	100/bx	\$30.63	10bxs/cs	\$306.30
G216-003	Large; White	100/bx	\$30.63	10bxs/cs	\$306.30
G216-004	X-Large; White	100/bx	\$30.63	10bxs/cs	\$306.30

We offer a wide range of Wypall®, Kimtech®, Kimwipes® and more.

Check out page 434 to see just some of the many wipers we offer.



Latex Powder-Free Examination Glove

Aurelia® Luminance® polymer-coated powder free latex examination gloves are made from 100% natural rubber, ambidextrous, creamy white color and are non-sterile. Additional rinsing process for enhanced purification. Each batch of gloves is air-tested to detect pinholes. Aurelia® gloves conform and are tested to the highest international standards.

Type: Non sterile
 Glove Design & Feature: Ambidextrous and full textured
 Cuff: Beaded
 Usage: For single use only
 Color: White



Part No.	Description	Qty	List
G216-025	X-Small; White	1000/cs	\$163.33
G216-026	Small; White	1000/cs	\$163.33
G216-027	Medium; White	1000/cs	\$163.33
G216-028	Large; White	1000/cs	\$163.33
G216-029	X-Large; White	1000/cs	\$163.33

Latex Powder-Free Examination Glove

Aurelia® Distinct® Honeycomb® textured polymer-coated powder free latex examination gloves are made from 100% natural rubber, ambidextrous, creamy white color and are non-sterile. Our patented Honeycomb® texture is an Aurelia® exclusive for extraordinary gripping. Polymer-coating enhances donning, keeps hands smooth, reduces latex reactions. Beaded cuff snugs wrist, eliminates roll-up, minimizes entry of liquids. Each batch of gloves is air-tested to detect pinholes. Aurelia® gloves conform and are tested to the highest international standards.

Type: Non sterile
 Glove Design & Feature: Ambidextrous and honeycomb texture
 Cuff: Beaded
 Usage: For single use only



Part No.	Description	Qty/pk	Listpk	Qty/cs	List/cs
G216-005	X-Small; White	100/bx	\$37.05	10bx/cs	\$370.50
G216-006	Small; White	100/bx	\$37.05	10bx/cs	\$370.50
G216-007	Medium; White	100/bx	\$37.05	10bx/cs	\$370.50
G216-008	Large; White	100/bx	\$37.05	10bx/cs	\$370.50
G216-009	X-Large; White	100/bx	\$37.05	10bx/cs	\$370.50

Coated Gloves (Nitrile Dipped)

These nitrile coated gloves provide strong protection when working with chemicals. The glove has a smooth finish with the comfort of a soft lining. Cotton jersey lining absorbs perspiration for increased comfort during long periods of wear. Features a knit wrist.

Applications: Food processing (red meat, poultry and dairy), chemical processing (petrochemicals and oil refining), machine operations, graphic arts, battery manufacturing and maintenance.



Part No.	Description	Qty	List
A125-449	Palm Coated Nitrile / Green-Blue/Natural	12/pk	\$77.50

Hot Mill Gloves (Heavy Weight, 32oz)

The Hot Mill gloves are made from a cotton fabric, providing natural heat insulation for safer intermittent handling of hot objects. It's double palmed to form a cushion for comfortable wearing. The gloves are constructed of heavy, 32oz. nap-out cotton. Burlap lined for extra protection. Knuckle Strap and 4 1/2" plasticized gauntlet cuff. Constructed of super-heavy, 32oz. cotton. Packages of 12 pair.

Applications: Foundry, heat resistance.



Part No.	Description	Qty	List
A125-446	Hot Mill Gloves, 32oz, Gauntlet / Natural	12/pk	\$99.33

Biohazard Autoclave Gloves – Clavies

Soft, pliant, all-cotton terry cloth gloves are superb for handling hot objects out of the autoclave or oven or for other heat protection in the lab, school or industry. Note: Gloves are not waterproof and should not be used to handle dry ice. CE marked.

Heat-resistant up to 232°C (450°F); replace hazardous asbestos gloves.

Gauntlets in two lengths provide wrist and forearm protection.

Bright orange color offers high visibility.

Machine wash, air dry or use the Lab-Aire® II Glove Holder (R100-271) to dry on any Lab-Aire® dryer.



Part No.	Description	Qty	List
M440-012	13" Long	1pr/pk	\$54.42
M440-013	18.5" Long	1pr/pk	\$74.08

GOWNS

Isolation

Polypropylene

Polypropylene isolation gown.

Neck & waist ties with elastic wrists.

Light splash resistance.



Part No.	Description	Qty	List
A210-754	Isolation Gown - Yellow	50/cs	\$46.14

Polyethylene

Polyethylene economy barrier gown.

Pull over with waist ties & thumb loops.



Part No.	Description	Qty	List
A210-804	Isolation Gown - Blue	75/cs	\$102.36

Isolation Gowns

The Advantage I Isolation Gowns are made with polypropylene, the preferred material for non-hazardous work environments where a cost effective disposable garment is needed. This light-weight, breathable fabric is made of 100% spunbound filament. Polypropylene is durable and low lint. Polypropylene offers cool, comfortable protection. Lightweight yet durable, polypropylene is ideal for food manufacturing, light industrial, medical and similar industries where a low particulate barrier garment is necessary. The material will not flare, but will melt if exposed to direct high heat or flame. Mildew resistant, non-allergic and disposable. The Isolation Gowns come with a choice of a knit or elastic cuff. Latex-free.



Part No.	Description	Qty	List
A125-079	Yellow	50/cs	\$135.32
A125-080	Light Blue	50/cs	\$135.32

Isolation Gowns

Kimberly Clark™ KC200 Protective three-layer SMS fabric resistant to blood strike-through for various levels of exposure.

Elastic cuffs.

Tape-tab neck closure.

Ties at waist.



Part No.	Description	Qty	List
A101-080	Yellow; Large	100/cs	\$461.00
A101-083	Yellow; X-Large	100/cs	\$302.13

Impervious Comfort Gowns

Kimberly Clark™ impervious film laminate.

Heavy fluid protection in front.

Knit cuff.

Perforated open back.



Part No.	Description	Qty	List
A101-077	Universal	100/cs	\$517.67
A101-078	2X-Large	100/cs	\$520.00



Barrier

Certified Liquid Barrier Gowns

Kimberly-Clark™ Kimtech* A7 - This protective gown has plenty of innovative features, including a seamless front design and an easy to don and doff design to reduce contamination risk and prevent hazardous liquids from getting on clothing or skin.

The gowns are low lint to minimize contamination.

Thumb loops to maintain glove and garment interface.

Seamless front and closed back.

Enhanced liquid barrier protection- fabric tested for blood and blood-borne pathogen penetration, chemotherapy drug and hormone permeation (passes ASTM F1670 for penetration of blood and body fluids and ASTM F1671 for blood borne pathogens) to help protect people and processes from liquid splashes.

These gowns meet USP <800> guidelines.



Part No.	Description	Qty	List
A102-429	Small / Medium	100/cs	\$466.67
A102-430	Large / X-Large	100/cs	\$460.00
A102-428	2X-Large	100/cs	\$533.33

Barrier Gown

Sunsoft™ open around, knit cuffs, neck & waist ties. Blue. Size: Universal

Part No.	Description	Qty	List
A210-758	Blue; Universal	30/cs	\$80.62



HOODS

Sterile Cleanroom Hood with Ties

Have an average bacterial filtration efficiency (BFE) of 96% and are made of 100% polypropylene breathable SMS fabric, which gives the wearer cloth-like comfort. This personal protective apparel is triple-bagged and vacuum packaged, suitable for ISO Class 5 or higher cleanrooms. It is not made with natural rubber latex, silicone or the BHT preservative and is designed for single-use (disposable PPE). CE certified.

Works with a variety of respirators and masks.

This protective apparel isn't made with natural rubber latex, BHT preservative and or silicone.

Kimberly-Clark™ Kimtech Pure* A5 Cleanroom Apparel is manufactured in an ISO-certified facility, clean-processed and individually packaged under cleanroom conditions.

Fits Dispensers: No



Part No.	Description	Qty	List
A101-093	White; w/Ties	100/cs	\$630.00

Breathable Particle Protection Hood

These protective garments offer superior particle holdout coupled with unmatched comfort attributes.

The A20 fabric is comprised of five layers of stacked barrier protection (SMMMS) against hazardous particles.

Kleanguard™ A20 accessories are designed to help protect against dirt, grime and dust and are made with breathable Microforce barrier fabric.

Features serged seams.

Has an elastic face seal for a snug fit.

Passes NFPA 99 for antistatic (anti stat) materials.

Process Chlorine Free: No

Recyclable Container: No

Fits Dispensers: No



Part No.	Description	Qty	List
A101-327	White; Serged Seams, Elastic Face Seal	100/cs	\$180.60

Polypropylene w/ Elastic Face

50 Gram Hood

Part No.	Description	Qty	List
A210-696	White 50 Gram Hood	100/cs	\$60.10



Hood

The Advantage Pro Hood is made of a 3-layer material that is ideal for many situations where dry particulate barrier and repellency are needed. Advantage Pro provides an excellent barrier against water based liquids and is resistant to light chemical splash. Worker comfort is greatly increased because Advantage Pro is lightweight, soft and breathable. It offers improved strength, splash and particulate resistance against many workplace hazards. Advantage Pro is also treated with an anti-static agent.

Color: White
Packaging: 100/case

Applications: Paint spraying, pesticides handling, asbestos abatement, cleanroom, fiberglass handling, food processing, general maintenance, light chemicals, mining operations and nuclear industries.



Part No.	Description	Qty	List
A125-146	Hood, Elastic Face	100/cs	\$99.30
A125-147	Hood, Drawstring Closure	100/cs	\$96.73

SHOE COVERS

Conductive Shoe Covers

9001 ISO certified shoe covers with conductive strips are an economical way to protect static sensitive devices in the work area. A full length non-woven conductive carbon strip is added to the bottom of our shoe covers: regular sole polypropylene, skid free polypropylene and polylatex. The strip provides adequate length for body contact when worn with most shoe styles. Shoe covers are sized in extra large for versatility.

Color: Blue
Applications: Static sensitive environments, cleanroom, critical environment.
100 per bag, 3 bags per case, 300 per case.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
A125-195	Regular Sole	n/a	n/a	300/cs	\$147.32
A125-196	Skid-Free Sole	100/pk	\$43.15	300/cs	\$129.45

Sterile Cleanroom Boots

Kimberly-Clark™ Kimtech Pure* A5 - High-value combination of quality and comfort, which is delivered by the SMS (spunbound meltblown spunbound) material. White.

Easy to don, comfortable to wear and efficient to stock.

Engineered to protect workers and your bottom line.

Typical Uses (ISO 5-8 Cleanroom Environments): Compounding, mixing, filling, cleaning.

Part No.	Description	Qty	List
A101-091	Small / Medium	100/cs	\$890.00
A101-112	Universal	100/cs	\$517.05
A101-089	X-Large / 2X-Large	200/cs	\$674.85



Ankle High Shoe Covers

Kimberly-Clark™ Kimtech* A7 - These lab shoe covers have two elastic bands – both above and below the ankle – for enhanced fit and coverage. They efficiently and comfortably cover the shoelace area, closing a gap that could be a vehicle for contamination. Plus, they deliver a higher barrier of liquid protection and a superior grip, thanks to anti-skid vinyl soles.

Enhanced chemical and biological protection (passes ASTM F1670 for penetration of blood and body fluids) to help protect people and processes from liquid splashes.

30% more material is added to cover the ankle (vs. a standard shoe cover) and features two elastic bands above and below the ankle for enhanced coverage and fit.

Vinyl anti-skid soles for a better grip.



Part No.	Description	Qty	List
A102-327	Universal	300/cs	\$506.40
A102-328	Large / X-Large	300/cs	\$533.03

Polyethylene Shoe Covers

Polyethylene, rolled in pairs, anti-static, impervious material non-linting. Blue.



Part No.	Description	Qty	List
A210-563	Regular	200/cs	\$98.38
A210-564	X-Large	200/cs	\$106.08

Polypropylene Shoe Covers

9001 Iso certified Advantage I polypropylene shoe covers are made of 100% spunbound polypropylene. This non-woven fabric helps filter particulates for contamination control in critical environments. The regular sole shoe covers are available in universal or extra large sizes with comfortable elastic ankles to fit over most shoes. Skid-Free Soles are available for greater traction and improved safety. Applications: Medical, dental, cleanroom, critical environment, food handling/production, industrial manufacturing, construction and general maintenance. White or Blue. Regular sole. 100/pk 3pks/cs



Part No.	Description	Qty	List
A125-168	White; Regular	300/cs	\$55.79
A125-170	White; X-Large	300/cs	\$41.06
A125-169	Blue; X-Large	300/cs	\$53.27

Heavy Duty Jumbo Polyethylene Shoe Covers

Heavy duty jumbo polyethylene, anti-skid, extra tall, white.



Part No.	Description	Qty	List
A210-603	Jumbo Heavy Duty	150/cs	\$79.20

Boot Cover w/Rigid PVC Waffle Sole

Sunsoft™ impervious, 15" high, elastic at top & top of ankle. White.



Part No.	Description	Qty	List
A210-651	X-Large	200pr/cs	\$195.18
A210-648	Regular	200pr/cs	\$181.40

Be sure to ask us about Cleanline™ Sticky mats.



They have proven effective in a wide variety of industries, including microelectronics, aerospace, pharmaceutical, military, food, hospitals and many others. Fast, effective and easy to use. Each mat is composed of multiple layers of tough polyethylene film coated with adhesive and laminated together into a stack. These adhesive layers have numbered tabs for easy sheet separation. When the surface is contaminated, simply peel off the top layer and discard. An antimicrobial agent is incorporated in all adhesives and a 100% non-skid adhesive backing secures mat placement and helps prevent under-mat contamination & water seepage. Mats are available in six colors with 30, 40 and 60-sheet options. We also offer Cleanline™ aluminum frames & mat mounts to use with mats!

SLEEVE PROTECTORS

Breathable Particle Protection Sleeve Protectors

Kimberly-Clark™ - These protective garments offer superior particle holdout coupled with unmatched comfort attributes. The A20 fabric is comprised of five layers of stacked barrier protection (SMMMS) against hazardous particles. Kleenguard™ A20 accessories are designed to help protect against dirt, grime and dust and are made with breathable microforce barrier fabric.

Features serged seams, elastic wrists and elastic tops.

The 21" length is ergonomically designed for improved fit and comfort.

Passes NFPA 99 for antistatic (anti stat) materials.

Color: White

Style: Serged seams, Elastic top & wrists, 21" length

Process Chlorine Free: No



Part No.	Description	Qty	List
A101-323	White; 21" Length	200/cs	\$158.23

Chemical Spray Protection Sleeve Protector

Kleenguard™ A70 - Made of a 1.5 mil polyethylene-coated fabric, to resist many water-based liquids, greases and oils and liquid chemical splashes; wick-away lining for enhanced comfort.

One size fits all; 21" long with bound seams and elastic top and wrist.

Passes NFPA 99 for antistatic materials.

Ergonomically designed to fit the arm.



Part No.	Description	Qty	List
A101-604	Yellow; 21" Length	200/cs	\$267.87

Polypropylene Sleeve Protector

Elastic Top & bottom.

18" long.

White.



Part No.	Description	Qty	List
A210-701	18" Long	100/cs	\$46.14

Sleeve Protector

Sunsoft™ sleeve protector with elastic top and bottom.

SunSoft™ is a lightweight, spunbonded polypropylene fabric with a polyethylene coating. Polyethylene film is impervious and non-linting. Garments made of SunSoft™ protect workers against chemical dusts, paint sprays, asbestos and other solid airborne dusts.

SunSoft™ is a strong fabric with excellent tensile and tear resistance. SunSoft™ is ideal for spray and splatter from water and other non-oil-based liquids and provides economical protection against non-hazardous, grimy-work environment applications.

18" long. White.



Part No.	Description	Qty	List
A210-622	White; 18" Long	100/cs	\$55.76

Tyvek® Sleeve Protectors

Tyvek® sleeve protectors with elastic top and bottom.

White.

18" long.



Part No.	Description	Qty	List
A210-876	18" Long Tyvek®	100/cs	\$125.00



STORAGE - APPAREL

Earplug Dispensers

Translucent acrylic dispensers provide easy access to safety accessories.
Holds approximately 200 pairs of foam earplugs.
Set on counter or wall mount (screws included).
Dimensions: 227 x 162 x 156mm
Color: Green



Part No.	Description	Qty	List
M220-021	Translucent Green	1/ea	\$192.53

Bouffant Cap Dispenser

Store and dispense with ease.
Translucent acrylic dispensers provide easy access to safety accessories.
Hinged lid protects contents from dust and debris.
Set on counter or wall mount (screws included).
Great for holding other personal items, too.
Dimensions: 227 x 162 x 156mm
Color: Natural



Part No.	Description	Qty	List
M220-022	Bouffant Cap Dispenser	1/ea	\$192.53

Safety Glasses Dispensers

Clearly Safe®
Ergonomically angled for easy dispensing.
Translucent blue acrylic dispensers provide easy access to safety accessories.
Hinged lid protects glasses from dust and debris.
Set on counter or wall mount (screws included).
Large dispenser holds approx. 20 glasses, small dispenser approx. 10.
Great for holding other personal items, too.



Part No.	Description	Qty	List
M220-023	227 x 162 x 156mm	1/ea	\$106.34
M220-020	203 x 203 x 406mm	1/ea	\$192.53

Wall Holder 4 Position Adjustable

Not just for glove boxes. Ideal for gloves, face masks, shoe covers, etc.
The adjustable holding points provide true flexibility to hold up to four different boxed protective products and other lab essentials (size dependent).
Ideal for holding different sized sizes of gloves, mop caps, ear plugs, face masks, shoe covers, etc.
Adjustable universal fit, easy to clean, with a low profile.
Wall- or door-mountable, mounting hardware included.
Measures: 152 x 762 x 76mm



Part No.	Description	Qty	List
M220-082	Adjustable 4 Position Wall Holder	1/ea	\$199.55

Poxygrid Glove Dispenser Racks

Epoxy-coated glove dispenser wire racks.
Keep disposable gloves handy with these welded steel wire racks. Select rack to hold one, two or three boxes of disposable gloves, wipes or tissues.
Glove box drops into an individual retaining compartment and lifts out easily for replacement.
Retaining compartment internal dimensions are 12.7cmW x 9.5cmD (5 x 3¾").
Designed for mounting to a vertical surface.
Durable, blue epoxy coated racks are steam autoclavable at 121°C (250°F).



Part No.	Description	Dimensions (L x W x H)	Qty	List
M440-586	Single Box Holder	14 x 10.8 x 21cm (5½ x 4¼ x 8¼")	1/pk	\$36.68
M440-587	Double Box Holder	30.5 x 10.8 x 21cm (12 x 4¼ x 8¼")	1/pk	\$52.95
M440-588	Triple Box Holder	43.2 x 10.8 x 21cm (17½ x 4¼ x 8¼")	1/pk	\$71.85

Glove Box Holders - Acrylic

Keep gloves organized and ready for immediate use.
Free up benchtop space by mounting holders on wall for easy dispensing of gloves.
Clear acrylic holders include a polyester foam insert to securely hold a range of glove box sizes—snug fit ensures easy removal of gloves.
All holders fit most major brands of boxes.
Mounting screws included.



Part No.	Description	Qty	List
M220-361	1 Box	1/ea	\$61.32
M220-362	2 Box	1/ea	\$93.40
M220-363	3 Box	1/ea	\$110.37

Glove Box Holder - Steel Wire

Keep gloves organized and ready for immediate use.
Free up benchtop space by mounting holders on wall for easy dispensing of gloves.
Sturdy, epoxy-coated steel wire racks are an economical solution.
All holders fit most major brands of boxes.
Mounting screws included.



Part No.	Description	Qty	List
M220-346	1 Box, 140 x 209 x 108mm	1/ea	\$30.24
M220-347	3 Box, 250 x 454 x 108mm	1/ea	\$60.45

Multi-Compartment Dispensers

Three separate lift-up lids make loading and dispensing supplies easy.
Three-compartment dispenser can be used to organize safety glasses, earplugs, soft covers (including bouffant caps, beard covers & shoe covers) or any small items that need to be kept within reach. The unit includes screws for wall mounting or can be set on a counter.
Middle compartment has reach-in hole for dispensing.
For hospitals, labs, doctor's offices, veterinarian offices, dentist offices, etc.
Durable acrylic is see-through so product levels are always visible.
Color: Grey



Part No.	Description / Dimensions (W x H x D)	Qty	List
M220-024	3 Compartment / 406 x 406 x 203mm	1/ea	\$264.03

Lab Coat/Apron Hook

This hook is perfect for hanging lab coats, aprons or other clothing.
Adhesive backing included for instant mounting on any wall or door.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
M440-573	Lab Coat/Apron Hook	3/pk	\$53.55	18/cs	\$321.30

Safety Goggles Box, Acrylic

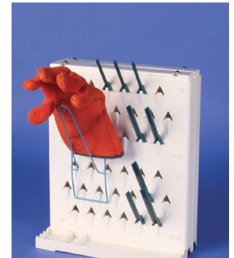
Store goggles, glasses or other small lab products using this clear acrylic box. It can be used on a desktop or can be mounted on a wall. Includes a lid to keep the box free of dust or contamination. Available in two sizes.



Part No.	Description (L x W x H)	Size	Qty	List
D350-009	23 x 16 x 18cm	Small	1/ea	\$148.30
D350-010	23 x 16 x 25cm	Large	1/ea	\$189.83

Wire Glove Holder; Holds 2 Gloves

Lab-Aire® II - Say goodbye to wet gloves forever.
Realize faster drying time by placing wet laboratory gloves on the convenient Lab-Aire® II glove holder.
Keeps gloves open for external as well as internal drying.
Helps to extend glove life by maintaining their shape, preventing bending, cracking and moisture buildup.
Significantly reduces drying time when used with electric Lab-Aire® II drying racks that circulate heated air in and around the gloves.
Epoxy-coated for chemical and corrosion resistance.
Holds one pair of gloves.
Steam autoclavable at 121°C (250°F).

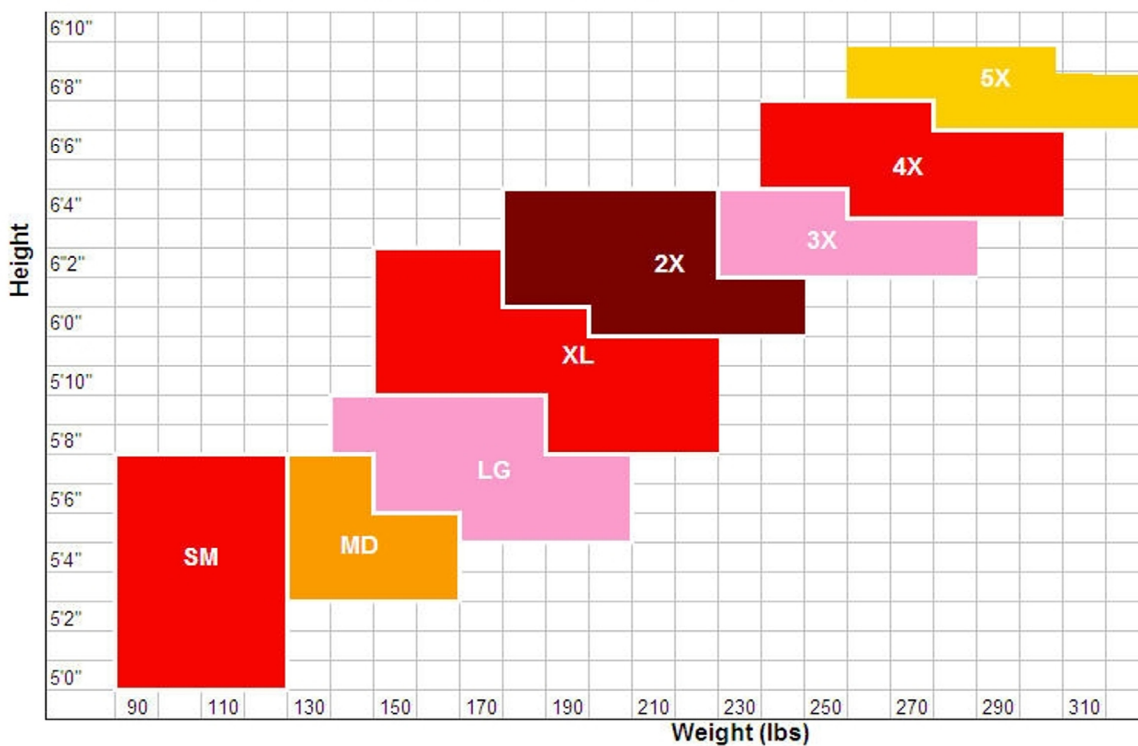


Part No.	Description	Qty	List
R100-271	Wire Glove Holder	1/ea	\$51.98

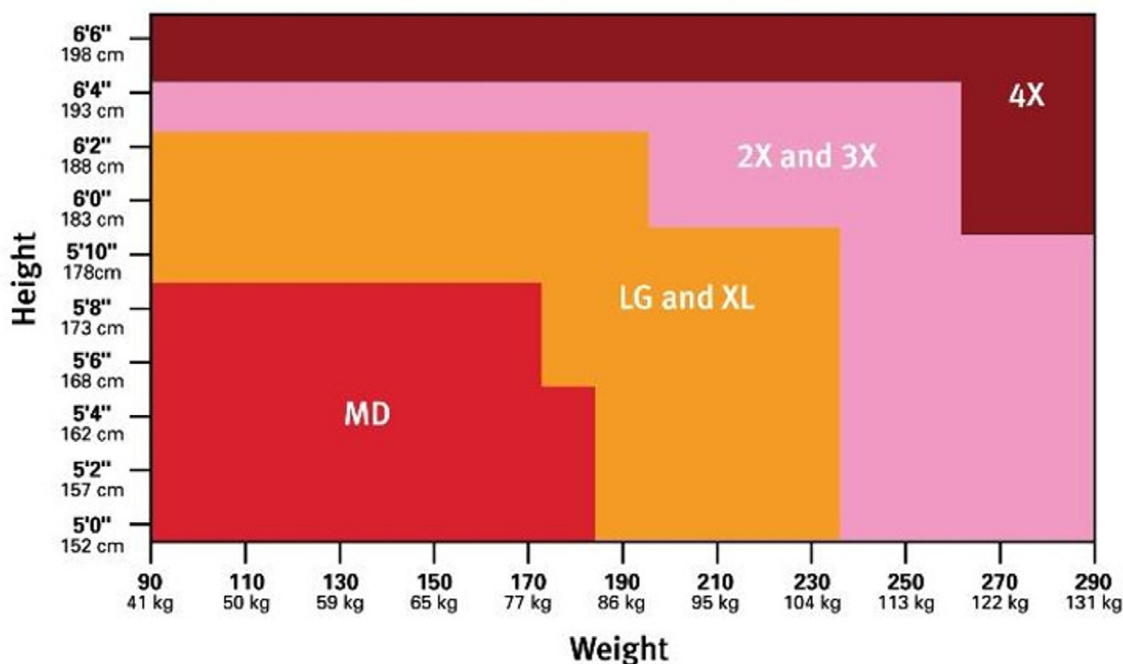


CLOTHING SIZE CHART

Protective Clothing Sizing Chart: Non-Encapsulated Garments



Protective garment sizing chart for fully encapsulated suits



Note: This chart is based on individuals wearing SCBA, safety helmet and standard work clothing. Fit varies with individual body shape.

OSHA LEVEL PROTECTION

Level A Protection: Should be used when the hazardous substance requires the highest level of protection for skin, eyes and the respiratory system. Level A protection should be used when:

1. The hazardous substance has been identified and requires the highest level of protection for skin, eyes and the respiratory system based on either the measured (or potential for) high concentration of atmospheric vapors, gases or particulates. The site operations and work functions involve a high potential for splash, immersion or exposure to unexpected vapors, gases or particulates of materials that are harmful to skin or capable of being absorbed through the skin.
2. Substances with a high degree of hazard to the skin are known or suspected to be present and skin contact is possible.
3. Operations must be conducted in confined, poorly ventilated areas. The absence of conditions requiring Level A have not yet been determined.

The following constitute Level A equipment; it may be used as appropriate;

Positive pressure, full face-piece self-contained breathing apparatus (SCBA) or positive pressure supplied air respirator with escape SCBA, approved by the National Institute for Occupational Safety and Health (NIOSH). Totally-encapsulating chemical-protective suit. Coveralls, long underwear, gloves, outer chemical-resistant, gloves, inner chemical-resistant. Boots, chemical-resistant, steel toe and shank. Hard hat (under suit). Disposable protective suit, gloves and boots (depending on suit construction, may be worn over totally-encapsulating suit).

Level B Protection - The highest level of respiratory protection is necessary but a lesser level of skin protection is needed. Level B protection should be used when:

1. The type and atmospheric concentration of substances have been identified and require a high level of respiratory protection, but less skin protection.
2. The atmosphere contains less than 19.5 percent oxygen.

3. The presence of incompletely identified vapors or gases is indicated by a direct-reading organic vapor detection instrument, but vapors and gases are not suspected of containing high levels of chemicals harmful to skin or capable of being absorbed through the skin.

Note: This involves atmospheres with IDLH concentrations of specific substances that present severe inhalation hazards and that do not represent a severe skin hazard; or that do not meet the criteria for use of air-purifying respirators.

The following constitute Level B equipment; it may be used as appropriate.

Positive pressure, full-facepiece self-contained breathing apparatus (SCBA) or positive pressure supplied air respirator with escape SCBA (NIOSH approved). Hooded chemical-resistant clothing (coveralls and long-sleeved jacket; coveralls; one or two-piece chemical-splash suit; disposable chemical-resistant coveralls). Coveralls, gloves, outer chemical-resistant, gloves, inner chemical-resistant, boots, outer chemical-resistant steel toe and shank. Boot-covers, outer chemical-resistant (disposable). Hard hat and face shield.

Level C Protection- The concentration(s) and type(s) of airborne substance(s) is known and the criteria for using air purifying respirators are met. Level C protection should be used when:

1. The atmospheric contaminants, liquid splashes or other direct contact will not adversely affect or be absorbed through any exposed skin.
2. The types of air contaminants have been identified, concentrations measured and an air-purifying respirator is available that can remove the contaminants.
3. All criteria for the use of air-purifying respirators are met.

The following constitute Level C equipment; it may be used as appropriate.

Full-face or half-mask, air purifying respirators (NIOSH approved). Hooded chemical-resistant clothing (coveralls; two-piece chemical-splash suit; disposable chemical-resistant coveralls). Coveralls. Gloves, outer, chemical-resistant. Gloves, inner, chemical-resistant. Boots (outer), chemical-resistant steel toe and shank. Boot-covers, outer, chemical-resistant (disposable). Hard hat. Escape mask. Face shield.

Level D Protection- A work uniform affording minimal protection: used for nuisance contamination only. Level D protection should be used when:

1. The atmosphere contains no known hazard.
2. Work functions preclude splashes, immersion or the potential for unexpected inhalation of or contact with hazardous levels of any chemicals.

The following constitute Level D equipment; it may be used as appropriate:

Coveralls, gloves, boots/shoes, chemical-resistant steel toe and shank. Boots, chemical-resistant (disposable). Safety glasses or chemical splash goggles. Hard hat, escape mask and face shield.



CHROMATOGRAPHY

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With such a wide selection of products from multiple manufacturers, not all options are listed here. If you do not see a product which meets the specifications you need, please feel free to contact us.

GAS CHROMATOGRAPHY**COLUMNS****Rxi®-5ms columns (fused silica) with low-polarity phase; Crossbond Diphenyl Dimethyl Polysiloxane**

- General-purpose columns for semivolatiles, phenols, amines, residual solvents, drugs of abuse, pesticides, PCB congeners (e.g., Aroclor mixes) and solvent impurities.
- Most inert column on the market.
- Tested and guaranteed for ultra-low bleed; improved signal-to-noise ratio for better sensitivity and mass spectral integrity.
- Temperature range: -60°C to 330/350°C.
- Equivalent to USP G27 and G36 phases.

Similar Phase(s):

HP-5ms SemiVolatiles, HP-5ms, HP-5msUI, DB-5, Ultra-2, CP-Sil 8 CB, ZB-5, ZB-5msi

Lengths available from 10m to 60m with I.D. ranges from 0.10mm to 0.53mm. Film thicknesses can range from 0.10µm to 1.50µm.



Part No.	Length	I.D.	df	Qty	List
C775-655	30m	0.25mm	0.25µm	1/ea	\$684.31
C775-663	30m	0.25mm	0.50µm	1/ea	\$684.31
C775-656	30m	0.32mm	0.25µm	1/ea	\$718.77
C775-664	30m	0.32mm	0.50µm	1/ea	\$718.77
C775-617	10m	0.10mm	0.10µm	1/ea	\$531.69
C775-622	30m	0.25mm	0.25µm	1/ea	\$699.08
C775-624	60m	0.25mm	0.25µm	1/ea	\$1187.69
C775-630	30m	0.32mm	0.50µm	1/ea	\$732.31

BP1 Phase Column 100% Dimethyl Polysiloxane

This column is an industry standard non-polar phase suitable for all routine analysis. Classic dimethyl polysiloxane technology with high temperature cross-linking. It is an excellent general purpose GC column with low bleed.

Application areas: Suitable for analysis of hydrocarbons, aromatics, pesticides, phenol, herbicides and amines.

Operating Temperature: 0.1-1.0µm film thickness -60°C to 340/360°C

1.5-3.0µm film thickness -60°C to 300/320°C

4.0-5.0µm film thickness -60°C to 280/300°C

Lengths range from 10m to 60m, with an I.D. range of 0.10mm to 0.53mm. Film thickness can range from 0.10µm to 5µm.



Part No.	Length	I.D.	df	Qty	List
C770-768	10m	0.10mm	0.10µm	1/ea	\$327.31
C770-773	30m	0.25mm	0.25µm	1/ea	\$487.71
C770-774	60m	0.25mm	0.25µm	1/ea	\$841.80
C770-789	30m	0.32mm	0.50µm	1/ea	\$519.80

BP1 PONA 100% Dimethyl Polysiloxane

This column is a non-polar phase for PONA analysis. Designed for the analysis of petroleum products.

Application Areas: Petroleum hydrocarbons, gasoline range hydrocarbons and MTBE.

Operating Temperatures: 0.5µm film thickness -60°C to 340/360°C

Part No.	Length	I.D.	df	Qty	List
C771-012	100m	0.25mm	0.50µm	1/ea	\$975.40
C771-026	50m	0.15mm	0.50µm	1/ea	\$975.40

BP5 5% Phenyl & 95% Dimethyl Polysiloxane

This column is a general purpose phase with excellent high temperature characteristics. Popular column range used for a wide variety of applications. Excellent general purpose GC column with low bleed, non-polar and high temperature.

Application Areas: Aromatics, pesticides, herbicides, drugs of abuse, hydrocarbons and GC/MS applications.

Operating Temperatures: 0.25-1.5µm film thickness -60°C to 320/340°C

>1.5µm film thickness -60°C to 280/300°C

Part No.	Length	I.D.	df	Qty	List
C770-848	30m	0.32mm	0.25µm	1/ea	\$519.80
C770-852	30m	0.25mm	0.25µm	1/ea	\$487.71
C770-858	30m	0.53mm	5µm	1/ea	\$573.71



BPX5 5% Phenyl Polysilphenylene-siloxane

This column is a MS-Premium with a very low bleed column range with a maximum temperature up to 370°C. Suitable for trace analysis of pesticides, drugs, hydrocarbons and phenols. The BPX5 phase has been designed for robustness and is suitable for over 80% of all routine analyses performed by chromatographers. It is 5% Phenyl Polysilphenylene-siloxane and extremely inert.

Application Areas: Ultra trace analyses, pesticides/herbicides, hydrocarbons, solvents, phenols, amines, GC/MS and other specific detector applications.

Operating Temperature: 0.25-1.5µm film thickness -40°C to 360/370°C
>1.5µm film thickness -40°C to 350/360°C

Part No.	Length	I.D.	df	Qty	List
C770-805	30m	0.25mm	0.25µm	1/ea	\$531.20
C770-820	30m	0.32mm	0.50µm	1/ea	\$563.31
C770-834	30m	0.53mm	0.50µm	1/ea	\$610.91

FERRULES & UNIONS**Graphite Ferrules**

- Preconditioned to eliminate outgassing.
- High-purity, high-density graphite.
- Smoother surface and cleaner edges than conventional graphite ferrules.
- Contains no binders that can off-gas or adsorb analytes.
- Stable to 450°C.

**Vespel/Graphite Ferrules**

- VG2, 60% Vespel/40% graphite blend offers the best combination of sealing and ease of workability.
- VG1, 85% Vespel/15% graphite blend offers equivalent composition to Agilent™ Vespel/graphite ferrules.
- Seal with minimal torque, reusable and preferred for vacuum and high-pressure uses.
- Stable to 400°C.

Compact Type For Agilent™ GCs

Part No.	I.D.	Fits Column I.D.	Material	Fitting Size	Qty	List
C776-184	0.4mm	0.25/0.28mm	Graphite	1/16"	10/pk	\$51.00
C776-185	0.4mm	0.25/0.28mm	Graphite	1/16"	50/pk	\$189.62
C776-176	0.4mm	0.25/0.28mm	VG2	1/16"	10/pk	\$75.85
C776-177	0.4mm	0.25/0.28mm	VG2	1/16"	50/pk	\$300.77
C779-849	0.4mm	0.25/0.28mm	VG1	1/16"	10/pk	\$75.85
C779-850	0.4mm	0.25/0.28mm	VG1, 85%	1/16"	50/pk	\$300.77
C776-567	0.5mm	0.32mm	Graphite	1/16"	10/pk	\$51.00
C776-568	0.5mm	0.32mm	Graphite	1/16"	50/pk	\$189.62
C776-182	0.5mm	0.32mm	VG2	1/16"	10/pk	\$75.85
C776-183	0.5mm	0.32mm	VG2	1/16"	50/pk	\$300.77
C779-851	0.5mm	0.32mm	VG1	1/16"	10/pk	\$75.85
C779-852	0.5mm	0.32mm	VG1	1/16"	50/pk	\$300.77
C776-186	0.8mm	0.45/0.53mm	Graphite	1/16"	10/pk	\$51.00
C776-195	0.8mm	0.45/0.53mm	VG2	1/16"	50/pk	\$300.77

Graphite Ferrules**for SeCure® "Y" Connectors**

- Preconditioned to minimize out-gassing.
- High-purity, high-density graphite.
- Stable to 450°C.
- No binders that can off-gas or adsorb analytes.
- Smooth surface and clean edges.

**For Agilent™ & Varian™ GCs**

Part No.	I.D.	Fits Column I.D. (mm)	Qty	List
C776-143	0.4mm	0.10/0.15/0.18/0.25/0.28	10/pk	\$49.69
C776-168	0.4mm	0.10/0.15/0.18/0.25/0.28	50/pk	\$189.62

Universal "Y" Press-Tight Connectors

- Universal fit: use with 0.1–0.53mm ID Restek® columns (0.33–0.74mm OD).
- Optional deactivated fused quartz helps eliminate activity for complete inertness along the GC flow path.
- Optional Siltek deactivation is ideal for organochlorine pesticides analysis.
- Split sample flow—perform dual-column confirmation analysis with a single injection.
- Split column flow to two detectors.



Part No.	Description	Qty	List
C776-265	Undeactivated	1/ea	\$96.00
C776-266	Undeactivated	3/pk	\$254.79
C784-123	Deactivated	1/ea	\$97.23
C784-124	Deactivated	3/pk	\$258.46
C776-291	Siltek Deactivated	1/ea	\$107.08
C776-292	Siltek Deactivated	3/pk	\$291.69



Vespel/Graphite Ferrules

- VG2, 60% Vespel / 40% graphite blend offers the best combination of sealing and ease of workability.
- VG1, 85% Vespel / 15% graphite blend offers equivalent composition to Agilent™ vespel/graphite ferrules.
- Seal with minimal torque, reusable and preferred for vacuum and high-pressure uses.
- Stable to 400°C.
- Recommended for mass spec transfer lines.



Standard Type For Agilent™, Varian™ & PerkinElmer® GCs (Items in Red Will Not Work With PerkinElmer®)

1/16" Fitting Size

Part No.	I.D.	Fits Column I.D.	Material	Qty	List
C776-154	0.4mm	0.10/0.15/0.18/0.25/0.28mm	VG2	10/pk	\$57.54
C776-170	0.4mm	0.10/0.15/0.18/0.25/0.28mm	VG2	50/pk	\$214.46
C776-144	0.5mm	0.32mm	Graphite	10/pk	\$49.69
C776-169	0.5mm	0.32mm	Graphite	50/pk	\$189.62
C776-155	0.5mm	0.32mm	VG2	10/pk	\$57.54
C776-172	0.5mm	0.32mm	VG2	50/pk	\$214.46
C776-145	0.8mm	0.45/0.53mm	Graphite	10/pk	\$49.69
C776-156	0.8mm	0.45/0.53mm	VG2	10/pk	\$57.54
C776-171	0.8mm	0.45/0.53mm	VG2	50/pk	\$214.46



Compatible with Agilent™, Perkin®, Shimadzu™, Thermo™ & Varian™ GCs (pks of 10)

Part No.	Column Size	Material	Compatibility	List
C771-229	1/4" O.D. Packed	100% Graphite	Agilent Only	\$27.42
C771-267	0.10-0.25mm I.D.	100% Graphite	Agilent Only	\$27.42
C771-308	1/8" O.D. Packed	15% Graphite/85% Vespel	No Shimadzu	\$41.55
C771-259	0.10-0.25mm I.D.	15% Graphite/85% Vespel	Agilent Only	\$41.55
C771-260	0.32mm I.D.	15% Graphite/85% Vespel	Agilent Only	\$41.55
C771-252	1/8" Nut, 0.32mm I.D.	100% Graphite	Perkin Only	\$27.42
C771-254	1/16" Nut, 0.45-.53mm I.D.	100% Graphite	Perkin & Varian	\$27.42
C771-255	1/16" Nut, 0.10-.25mm I.D.	100% Graphite	Perkin & Varian	\$27.42
C771-205	1/16" Nut, 0.32mm I.D.	15% Graphite/85% Vespel	No Agilent	\$36.31
C771-281	1/16" Nut, 0.45-.53mm I.D.	15% Graphite/85% Vespel	No Agilent	\$36.31
C771-224	1/16" Nut, 0.10-.25mm I.D.	15% Graphite/85% Vespel	No Agilent	\$36.31
C771-308	1/8" Nut, O.D. Packed	15% Graphite/85% Vespel	No Shimadzu	\$41.55
C771-327	0.10-.25mm I.D.	SilTite™ Metal	No Agilent & Thermo	\$72.74
C771-334	0.10-.25mm I.D.	SilTite™ Metal	No Agilent & Thermo	\$48.28
C771-335	0.32mm I.D.	SilTite™ Metal	No Agilent & Thermo	\$48.28
C771-336	0.45-.53mm I.D.	SilTite™ Metal	No Agilent & Thermo	\$48.28
C771-246	0.32mm I.D.	100% Graphite	Thermo Only	\$27.42
C771-280	0.10-.25mm I.D.	15% Graphite/85% Vespel	Thermo Only	\$72.86
C771-237	0.10-.32mm I.D.	100% Graphite	Shimadzu Only	\$73.28
C771-341	0.10-.25mm I.D.	SilTite™ Metal	Shimadzu Only	\$72.74

Graphite Ferrules

- Preconditioned to eliminate outgassing.
- High-purity, high-density graphite.
- Smoother surface and cleaner edges than conventional graphite ferrules.
- Contain no binders that can off-gas or adsorb analytes.
- Stable to 450°C.



For use with Thermo™ GCs

Part No.	I.D.	Fits Column I.D.	Fitting Size	Qty	List
C776-211	0.4mm	0.18-0.28mm	1/16"	10/pk	\$134.69
C776-214	0.8mm	0.45-0.53mm	1/16"	2/pk	\$34.00

For use with Shimadzu™ 17A, 2010 & 2014 GCs

Part No.	I.D.	Fits Column I.D.	Qty	List
C778-845	0.5mm	0.32mm	10/pk	\$100.85

For use with SRI & Buck Scientific GCs

Part No.	I.D.	Fits Column I.D.	Fitting Size	Qty	List
C776-149	0.8mm	0.53mm	1/8"	5/pk	\$39.23

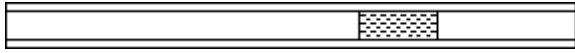
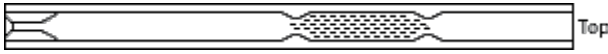

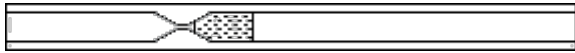
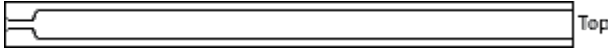
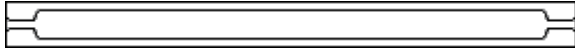
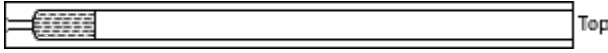
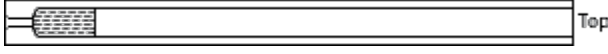

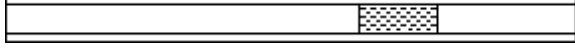
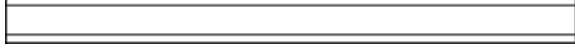
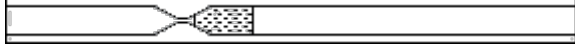
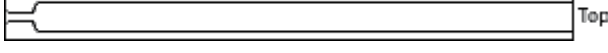


INLET LINERS

Every batch of inlet liners is tested for activity using the EPA 8081B method. This standard method ensures that each batch of inlet liners has less than 3% Endrin breakdown. A batch certificate is included with every pack.



These liners are compatible with Agilent™, Thermo™ & Varian™ / Bruker™ GC units.

Part No.	OD (mm)	ID (mm)	Description	Length (mm)	Qty	List
C771-405	6.3	4	 4.0mm ID Split, with quartz wool	78.5	5/pk	\$67.45
C771-409	6.3	4	 4.0mm ID Split / Splitless Tapered FocusLiner	78.5	5/pk	\$125.06
C771-415	6.3	4	 4.0mm ID Split, straight-through liner	78.5	5/pk	\$59.91
C771-495	6.3	4	 4.0mm ID Split / Splitless. Recessed Gooseneck with quartz wool	78.5	5/pk	\$87.92
C771-502	6.3	4	 4.0mm ID Split / Splitless with single taper	78.5	5/pk	\$82.59
C771-504	6.3	4	 4.0mm ID Split / Splitless with double taper	78.5	5/pk	\$101.20
C771-506	6.3	4	 4.0mm ID Split / Splitless with single taper and quartz wool	78.5	5/pk	\$86.06
C771-632	6.3	4	 4.0mm ID Split / Splitless with single taper and quartz wool	78.5	25/pk	\$346.85
C771-633	6.3	4	 4.0mm ID Split / Splitless Focus Liner™	78.5	25/pk	\$321.12
C771-634	6.3	4	 4.0mm ID Split, with quartz wool	78.5	25/pk	\$271.45
C771-636	6.3	4	 4.0mm ID Split, straight-through liner	78.5	25/pk	\$223.55
C771-637	6.3	4	 4.0mm ID Split / Splitless. Recessed Gooseneck with quartz wool	78.5	25/pk	\$349.46
C771-640	6.3	4	 4.0mm ID Split / Splitless with single taper	78.5	25/pk	\$342.45

For Agilent™ GCs equipped with Split/Splitless Inlets. (pks of 5)

Topaz® GC Inlet Liners

Feature revolutionary technology and inertness to deliver you the next level of True Blue Performance:

- Deactivation—unbelievably low breakdown for accurate and precise low-level GC analyses.
- Reproducibility—unbeatable manufacturing controls and QC testing for superior reliability across compound classes.
- Productivity—unparalleled cleanliness for maximized GC uptime and lab throughput.



Premium Deactivation

Part No.	I.D. / O.D.	Length	Packing	Geometry	List
C778-063	4.0 / 6.3mm	78.5mm	Quartz Wool	Precision	\$34.46
C778-085	2.0 / 6.5mm	78.5mm	None	Straight	\$34.46
C778-059	4.0 / 6.5mm	78.5mm	None	Single Taper	\$120.62
C778-071	4.0 / 6.5mm	78.5mm	None	Double Taper	\$43.08
C778-076	4.0 / 6.5mm	78.5mm	None	Cyclo Double Taper	\$107.08
C778-079	4.0 / 6.3mm	78.5mm	None	Drilled Uniliner (near top)	\$91.08

Standard Deactivation *Items in red are pks of 10.

Part No.	I.D. / O.D.	Length	Packing	Geometry	List
C777-389	4.0 / 6.5mm	78.5mm	Deactivated Wool	Single Taper	\$120.62
C776-412	4.0 / 6.3mm	78.5mm	Deactivated Wool	Straight	\$207.82
C776-415	4.0 / 6.5mm	78.5mm	None	Double Taper	\$95.39
C776-589	4.0 / 6.3mm	78.5mm	Deactivated Wool	Precision low pressure drop	\$193.85
C776-401	4.0 / 6.3mm	78.5mm	None	Drilled Uniliner (near bottom)	\$404.92
C776-426	4.0 / 6.3mm	78.5mm	None	Single Taper	\$116.92
C776-671	2.0 / 3.0mm	71.0mm	Deactivated Wool	Straight	\$380.77
C776-403	4.0 / 6.5mm	78.5mm	None	Straight	\$84.92
C776-536	1.0 / 6.3mm	78.5mm	None	Straight	\$102.77
C776-296	4.0 / 6.3mm	78.5mm	None	Drilled Uniliner (hole top) w/Top Taper	\$351.39
C776-547	4.0 / 6.5mm	78.5mm	None	Recessed Single Taper	\$124.31
C776-919	1.5 / 3.0mm	71.0mm	None	Baffled	\$281.08
C776-368	2.0 / 6.5mm	78.5mm	None	Straight	\$113.85
C776-511	5.0 / 8.0mm	105mm	None	Straight	\$142.15
C776-508	3.0 / 8.0mm	105mm	None	Straight	\$115.08
C784-688	2.0 / 2.75mm	120mm	None	Baffled	\$278.15

For Thermo Trace™, 8000 Series and Focus GCs Equipped with SSL Inlets. (pks of 5)

Premium Deactivation

Part No.	I.D. / O.D.	Length	Packing	Geometry	List
C778-125	5.0 / 8.0mm	105mm	Quartz Wool	Precision	\$49.23
C778-236	4.0 / 6.5mm	78.5mm	Quartz Wool	Single Taper	\$44.31
C778-113	5.0 / 8.0mm	105mm	N/A	Straight	\$40.62
C778-119	5.0 / 8.0mm	105mm	N/A	Single Taper	\$50.46
C778-212	2.0 / 2.75mm	120mm	N/A	Straight	\$52.92
C778-222	3.0 / 8.0mm	105mm	N/A	Single Taper	\$50.46

For Varian™/Bruker™ GCs Equipped with 1075/1077 Inlets. (pks of 5)

Standard Deactivation

Part No.	I.D. / O.D.	Length	Packing	Geometry	List
C776-494	4.0 / 6.3mm	74mm	None	Top Taper	\$139.69
C776-601	4.0 / 6.3mm	78.5mm	None	Frit w/Top Taper	\$249.85
C776-637	0.75 / 6.3mm	74mm	None	Straight/SPME	\$173.54
C777-039	4.0 / 6.5mm	78.5mm	None	Single Taper	\$116.92

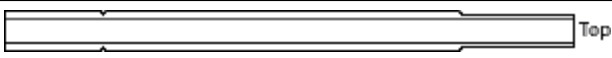
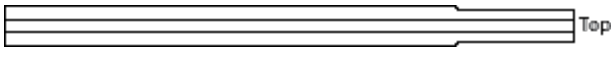
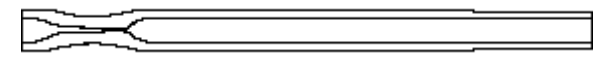
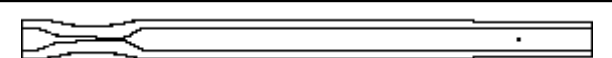
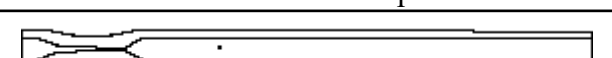
For Varian™/Bruker™ GCs Equipped with 1078/1079 Inlets. (pks of 5)

Premium Deactivation


Part No.	I.D. / O.D.	Length	Packing	Geometry	List
C778-275	0.75 / 5.0mm	54mm	N/A	Straight/SPME	\$35.69
C778-270	2.0 / 5.0mm	54mm	N/A	Top Taper	\$44.31
C778-268	3.4 / 5.0mm	54mm	Glass Frit	Frit w/Top Taper	\$57.85
C778-129	3.4 / 5.0mm	54mm	N/A	Top Taper	\$49.23



These liners are compatible with PerkinElmer® Autosystem & Clarus 500. (pks of 5)

Part No.	Description	OD (mm)	ID (mm)	Length (mm)	List
C771-601	 4mm ID, Split, straight-through liner	6.2	4	92	\$89.62
C771-606	 2mm ID, Splitless, straight-through liner	6.2	2	92	\$89.62
C771-686	 ConnecTite Liner Standard	6.2	4	92	\$223.55
C771-687	 ConnecTite Liner Top Hole	6.2	4	92	\$235.06
C771-688	 ConnecTite Liner Bottom Hole	6.2	4	92	\$235.06

These liners are compatible with Shimadzu™ 2010 liners. (pks of 5)

Part No.	Description	OD (mm)	ID (mm)	Length (mm)	List
C771-558	 Split, straight-through liner	5	3.4	95	\$56.45

Inlet liners for Shimadzu™ 17A, 2010 & 2014 GCs equipped with split/splitless inlets. (pks of 5)

Standard Deactivation

Part No.	I.D. / O.D.	Length	Packing	Geometry	List
C777-327	3.5 / 5.0mm	95mm	None	Single Taper	\$266.46
C776-527	3.5 / 5.0mm	95mm	None	Straight	\$129.23

Inlet Liner Supplies

Base-Deactivated Borosilicate Glass Wool

Ideal for amines and other basic compounds.



Deactivated Borosilicate Glass Wool

More flexible than fused silica wool.



Deactivated Glass Wool

More inert than traditional glass wool. Use to vaporize a sample in a liner prior to introduction into a capillary column.



Part No.	Description	Qty	List
C776-561	Base Deactivated Wool	10g	\$72.00
C776-419	Deactivated Borosilicate Glass Wool	10g	\$38.15
C778-537	Deactivated Glass Wool	10g	\$45.54
C776-221	Replacement CarboFrit Inserts (for liner ID ≤ 4mm)	10/pk	\$60.92
C776-220	Replacement CarboFrit Inserts (for liner ID > 4mm)	10/pk	\$60.92



We offer a wide range of other Inlet Liner options for Agilent™, DANI, ATAS, APEX, PerkinElmer®, Shimadzu™, Thermo™, & Varian™/Bruker™. If you don't see one here which meets your needs contact us for more options.

SEPTAS

All septas are made with a high grade silicone material to minimize needle coring.



For Agilent™ (7890, 6890, 5890, 5880, 4890 & 6850) PerkinElmer® (Sigma, 900, 990, 3920, 8300, 8400, 8500, Autosystem & Clarus 500) Varian™/Bruker™ (1075, 1077, 1078, 1079 injectors, & 1093, 1094 SPI injectors)

Part No.	Diameter	Septum Type	Qty	List
C770-739	11mm	GP	50/pk	\$45.02
C770-700	11mm	MN	50/pk	\$101.23
C770-752	11mm	HT	100/pk	\$155.19
C770-707	11mm	HT	25/pk	\$46.20
C770-767	11mm	EC	50/pk	\$77.11

For Thermo Scientific™ 8000 Series, Focus™, Trace™/Ultra GC

Part No.	Diameter	Septum Type	Qty	List
C770-698	17mm	MN	48/pk	\$132.68
C770-709	17mm	HT	24/pk	\$46.20
C770-763	17mm	EC	24/pk	\$43.83

For Shimadzu™ 9A, 14, 15A, 16, 17A, 2010 & 2014

Part No.	Diameter	Septum Type	Qty	List
C770-753	n/a	GP	50/pk	\$97.79
C770-754	n/a	HT	50/pk	\$92.19
C770-765	n/a	EC	50/pk	\$82.71

Details of Material

Old Material

CS

TCS

TCSD

Auto-Sep
Auto-SepT

Current Material

GP

EC

MN

HT

Description

General purpose septa is designed for non-demanding, routine applications.

Combines significantly longer injection life, low bleed and low injection part adhesion.

Premium septum for auto samples with up to 400 injections per septum.

Bleed and temperature optimized, combined with outstanding mechanical properties for the highest temperature applications. Retains softness and pierceability at high temperatures and low injection part adhesion.



Septa (9mm, 9.5mm, 11mm, 17mm)**For Thermo Scientific™, Agilent™, PerkinElmer® & Varian™/Bruker™ GCs****Thermolite® Plus Septa**

- Usable to 350°C inlet temperature.*
- Ultra-low bleed minimizes background signal.
- New plasma coating eliminates sticking in the injection port.
- Precision molding ensures consistent, accurate fit.
- Septa have a CenterGuide design to minimize coring. (Not available on 6mm, 7mm, 8mm, 9.5mm, 10mm and Shimadzu™ plug.)
- 5mm septa are partially predrilled for improved puncturability.
- Preconditioned and ready to use.
- Packaged in ultra-clean blister packs.
- Each batch GC-FID tested.

**Premium Non-Stick BTO Septa**

- Usable to 400°C inlet temperature.*
- New plasma coating eliminates sticking in the injection port.
- Precision molding ensures consistent, accurate fit.
- Septa have a CenterGuide design to minimize coring. (Not available on 9.5mm, 10mm and Shimadzu™ plug.)
- 5mm and 11mm septa are partially predrilled.
- Preconditioned and ready to use.
- Packaged in ultra-clean blister packs.**
- Each batch GC-FID tested.
- Bleed and temperature optimized; ideal for demanding GC and GC-MS applications.

Note: Due to differences in inlet design, the actual septum temperature for a given inlet setpoint can vary by manufacturer.

Manufacturer recommends using only BTO septa in Thermo TRACE™ and Focus GCs.

*For 17mm inlets, the maximum temperature for BTO septa is 330°C, 290°C for Thermolite® septa and 300°C for Thermolite® Plus septa. For all injectors, minimum recommended operating temperature for BTO septa is 250°C.

**12.7mm and 17mm septa packaged in precleaned glass jars.

Part No.	Description	Qty	List
C779-869	Premium BTO 11mm Premium Non-stick w/Centerguide	50/pk	\$100.92
C779-870	Premium BTO 11mm Premium Non-stick w/Centerguide	100/pk	\$174.77

For Agilent™ & Varian™/Bruker™ GCs

Part No.	Diameter	Description	Qty	List
C779-867	10mm	Premium Non-Stick BTO	50/pk	\$100.92

For Shimadzu™ & SRI GCs

Part No.	Diameter	Description	Qty	List
C786-936	Shimadzu Plug	Premium Non-Stick BTO	50/pk	\$98.46

For Tracor 540 GCs

Part No.	Diameter	Description	Qty	List
C779-871	11.5mm w/ CenterGuide	Premium Non-Stick BTO	50/pk	\$100.92

Thermolite® Septa

- Usable to 340°C inlet temperature.*
- Precision molding assures consistent, accurate fit.
- Excellent puncturability.
- Preconditioned and ready to use.
- Packaged in ultra-clean blister packs.**

Note: Due to differences in inlet design, the actual septum temperature for a given inlet setpoint can vary by manufacturer.

Manufacturer recommends using only BTO septa in Thermo™ TRACE and Focus GCs.

*For 17mm inlets, the maximum temperature for Thermolite® septa is 290°C.

**12.7mm and 17mm septa packaged in precleaned glass jars.

**For use with Agilent™ & Varian™/Burke**

Part No.	Diameter	Qty	List
C779-894	11mm (7/16")	50/pk	\$86.15
C779-895	11mm (7/16")	100/pk	\$144.00

800.369.5524

817.783.3571 (fax)

www.foxscientific.com



SYRINGES - GC AUTOSAMPLER

A comprehensive range of GC autosampler syringes are designed and tested to meet critical autosampler specifications.

The unique plunger design minimizes bending, seizing and the cone tip needle point style has been developed specifically to withstand multiple fast septum injections.

Select from a wide range of fixed needle and removable needle options. PTFE tipped replaceable plunger versions are available for use with gas and headspace samples. These may also further reduce the risk of plunger seizing when working with dirty samples, reducing instrument downtime and minimizing the risk of instrument shutdown during the processing of large batches of samples.

For Agilent™ GCs

Tip Style: Cone

Part No.	Volume	Gas Tight	Needle Length	Gauge	O.D.	Qty	List
C770-047	5µL	No	42mm	26	0.47mm	1/ea	\$58.05
C770-050	5µL	No	42mm	23	0.63mm	6/pk	\$330.68
C770-052	5µL	No	42mm	23-26	0.63/0.47mm	1/ea	\$53.14
C770-054	5µL	No	42mm	23-26	0.63/0.47mm	6/pk	\$306.65
C770-116	10µL	No	42mm	26	0.47mm	6/pk	\$213.06
C770-122	10µL	No	42mm	23	0.63mm	6/pk	\$213.06
C770-128	10µL	No	42mm	23-26	0.63/0.47mm	6/pk	\$213.06
C770-223	50µL	Yes	42mm	23-26	0.63/0.47mm	1/ea	\$88.51
C770-261	100µL	Yes	42mm	23-26	0.63/0.47mm	1/ea	\$101.46
C770-117*	10µL	No	42mm	26	0.47mm	1/ea	\$52.29

*This item has a removable needle. All others are fixed needles.



A large variety of replacement syringes for the most popular gas chromatography (GC) autosamplers.

For Agilent™ GCs

(Part No.(s) in Red Have a Special Termination)



Part No.	Volume	Needle Length	Gauge	O.D.	Tip Style	Qty	List
C676-758	0.5µL	43.4mm	23s	0.64mm	AS	1/pk	\$90.00
C676-444	1µL	43.4mm	26s	0.47mm	AS	1/pk	\$82.00
C676-438	10µL	43.4mm	23s	0.64mm	AS	6/pk	\$310.00
C676-437*	10µL	43.4mm	23s	0.64mm	AS	1/pk	\$60.00
C676-504	10µL	43.4mm	23s	0.64mm	AS	6/pk	\$223.00
C676-499	10µL	43.4mm	23s-26s	0.72-0.47mm	AS	6/pk	\$223.00
C676-498	10µL	43.4mm	26s	0.47mm	AS	6/pk	\$223.00
C676-496	10µL	43.4mm	23s	0.64mm	AS	1/pk	\$39.00
C676-497	10µL	43.4mm	26s	0.47mm	AS	1/pk	\$40.21
C676-850	5µL	43.4mm	23s	0.64mm	AS	6/pk	\$320.00
C676-852	5µL	43.4mm	23s-26s	0.72-0.47mm	AS	6/pk	\$336.00
C676-851	5µL	43.4mm	23s-26s	0.72-0.47mm	AS	1/pk	\$60.00
C676-412	10µL	51mm	26s	0.47mm	.2	1/pk	\$27.00
C676-494	10µL	51mm	26s	0.47mm	.2	6/pk	\$110.00
C676-468	10µL	51mm	26s	0.47mm	.2	1/pk	\$19.80
C676-833	5µL	51mm	26s	0.483mm	.2	1/pk	\$35.00

*Item(s) with a star next to them have a removable needle. All others are cemented unless noted as special.

Fixed Needle

For CTC GCs



Tip Style: Cone

Part No.	Volume	Gas Tight	Needle Length	Gauge	O.D.	Qty	List
C770-141	10µL	Yes	57mm	26	0.47mm	1/ea	\$70.32
C770-162	10µL	No	50mm	n/a	0.50mm	1/ea	\$36.65
C770-174	10µL	No	50mm	26	0.47mm	6/pk	\$200.63
C770-201	25µL	Yes	50mm	23	0.63mm	1/ea	\$75.65
C770-260	100µL	Yes	50mm	23	0.63mm	1/ea	\$75.23

Tip Style: AS

Part No.	Volume	Termination	Gauge	O.D.	Qty	List
C675-402	10µL	Fixed	23s	0.64mm	1/pk	\$94.00
C675-377	10µL	Fixed	26s	0.483mm	1/pk	\$94.00
C675-373	5µL	Fixed	26s	0.483mm	1/pk	\$103.00



Fixed Needle For PerkinElmer® GCs



Tip Style: Cone

Part No.	Volume	Gas Tight	Needle Length	Gauge	O.D.	Qty	List
C770-064	5µL	No	70	23	0.63mm	1/ea	\$71.34
C770-066	5µL	Yes	70	23	0.63mm	1/ea	\$72.09
C770-010	0.5µL	No	70	23	0.63mm	1/ea	\$100.11



Tip Style: 3

Part No.	Volume	Termination	Gauge	O.D.	Qty	List
C676-858	5µL	Cemented	0.63mm	0.64mm	1/pk	\$73.00

For Shimadzu™ GCs



Tip Style: Cone

Part No.	Volume	Gas Tight	Needle Length	Gauge	O.D.	Qty	List
C770-154	10µL	No	42mm	26	0.47mm	1/ea	\$70.49

Tip Style: 5

Part No.	Volume	Termination	Gauge	O.D.	Qty	List
C675-365	2.5mL	Luer Tip	23	0.64mm	1/pk	\$165.00

For Thermo™ GCs



Tip Style: Cone

Part No.	Volume	Gas Tight	Needle Length	Gauge	O.D.	Qty	List
C770-141	10µL	Yes	57mm	26	0.47mm	1/ea	\$70.32
C770-069	5µL	No	50mm	26	0.47mm	1/ea	\$70.49
C770-162	10µL	No	50mm	n/a	0.50mm	1/ea	\$36.65
C770-165	10µL	No	50mm	26	0.47mm	1/ea	\$39.35
C770-174	10µL	No	50mm	26	0.47mm	6/pk	\$200.63



Tip Style: 2

Part No.	Volume	Termination	Gauge	O.D.	Qty	List
C675-428	10µL	Cemented	26s	0.483mm	1/pk	\$108.83

For Varian™/ Bruker™ GCs



Termination: Cemented

Part No.	Volume	Gauge	O.D.	Tip Style	Qty	List
C676-478	10µL	26s	0.47mm	5	1/pk	\$45.00

SYRINGES - MANUAL

When using the complete loop fill technique, the syringe capacity should be greater than twice the loop volume.

The loop capacity sets the injection volume.

For the partial loop fill technique, the injection volume should be no greater than half the loop capacity.

The injection size sets the injection volume.

For Beckman/Altex, Rheodyne, SSI & Valco Valves



Tip Style: LC

Part No.	Volume	Needle	Needle Length	Gauge	O.D.	Qty	List
C770-253	100µL	Fixed	2"	22	0.028"	1/ea	\$34.35
C770-351	1mL	Removable	2"	22	0.028"	1/ea	\$67.19

Plunger-in-Barrel Syringes

Each plunger is individually fitted for each microsyringe for perfect sealing. Plunger protection incorporates a plunger protection guide and plunger button reinforcement to minimize the risk of bent plungers. Trajan®s SuperfleX™ microsyringes use a super elastic alloy plunger that will not bend or kink. Guided plunger microsyringes have an extended barrel and reinforced plunger that provides additional protection.



5µL MicroVolume Syringes

Tip Style:	Bevel	Gauge:	26			
Part No.	Needle	Needle Length	O.D.	Qty	List	
C770-083	Fixed – Plunger Protection	50mm	0.47mm	1/ea	\$44.26	
C770-044	Removable – Guide plunger	50mm	0.47mm	1/ea	\$74.05	

High Capacity Luer Lock Syringes

Ideal for loop fill injection technique when used in conjunction with the appropriate LC needles (listed below). They are also ideal for flushing sample loops after injection.



LC Pump Priming Syringe

Part No.	Volume	Accepted Needles	Qty	List
C770-391	5mL	Fixed Luer Lock	1/ea	\$51.20
C770-406	10mL	Fixed Luer Lock	1/ea	\$91.65
C770-389	5mL	Removable Luer Lock	1/ea	\$61.02
C770-404	10mL	Removable Luer Lock	1/ea	\$61.86

Trajan® NanoVolume Syringes

With the ability to inject down to 50nL with high precision and accuracy, Trajan's NanoVolume Syringes are perfect for nanovolume capillary chromatography injection.

The sample is only drawn up into the needle, not the syringe barrel. When the plunger is depressed, the sample is completely dispensed by the NanoVolume plunger that extends right to the tip of the needle.

The plungers and needles are matched sets and must be replaced as a set.

Accuracy and Reproducibility: ± 2%
 Borosilicate glass barrel OD: 6.5mm and 8mm
 International Standards Traceability

Gauge: 23

Part No.	Volume	Needle Length	O.D.	Tip Style	Barrel	Qty	List
C770-020	1µL	70mm	0.63mm	Bevel	8mm	1/ea	\$63.97
C770-032	5µL	70mm	0.63mm	Cone	8mm	1/ea	\$72.43
C769-992	0.5µL	50mm	0.63mm	Cone	6.5mm	1/ea	\$77.34
C769-995	0.5µL	70mm	0.63mm	Cone	8mm	1/ea	\$77.34

0.5µL - 100mL Manual Syringe



Gauge: 26

Part No.	Volume	Needle Length	O.D.	Tip Style	Description	Qty	List
C770-072	10µL	50mm	0.47mm	Bevel	Fixed Needle	1/ea	\$19.22
C770-074	10µL	70mm	0.47mm	Bevel	Fixed Needle	1/ea	\$37.49
C770-075	10µL	50mm	0.47mm	Bevel	Fixed Needle	1/ea	\$106.95
C770-077	10µL	50mm	0.47mm	Bevel	Fixed Needle	1/ea	\$169.40
C770-083	10µL	50mm	0.47mm	Cone	Fixed Needle	1/ea	\$44.26
C770-086	10µL	50mm	0.47mm	Bevel	Fixed Needle	1/ea	\$28.52
C770-088	10µL	50mm	0.47mm	Bevel	Fixed Needle	1/ea	\$163.65
C770-091	10µL	50mm	0.47mm	Bevel	Removable Needle	1/ea	\$48.15

26 Gauge w/Removable Needle

With accuracy and reproducibility of ±1% the range of 10µL metal plunger syringes are ideal for making microvolume injections of 1.5µL to 8µL. Each plunger is individually fitted for each microsyringe for perfect sealing. Plunger protection incorporates a plunger protection guide and plunger button reinforcement to minimize the risk of bent plungers. Guided plunger microsyringes have an extended barrel and reinforced plunger that provides additional protection.



Part No.	Volume	Needle Length	O.D.	Tip Style	Qty	List
C770-103*	10µL	50mm	0.47mm	Bevel	1/ea	\$80.72
C770-079	10µL	50mm	0.47mm	Bevel	1/ea	\$37.91

* Guided Plunger



Microsyringe

Plunger is individually fitted for each microsyringe for perfect sealing.

Accuracy and Reproducibility: ± 1%
 Borosilicate glass barrel OD: 8mm
 Scale Length: 60mm



25 Gauge Tip Style: Bevel

Part No.	Volume	Needle Length	O.D.	Description	Qty	List
C770-183	25µL	50mm	0.50mm	Fixed Needle	1/ea	\$28.60
C770-206	50µL	50mm	0.50mm	Fixed Needle	1/ea	\$38.85
C770-237	100µL	50mm	0.50mm	Fixed Needle	1/ea	\$34.86
C770-315	500µL	50mm	0.50mm	Fixed Needle	1/ea	\$48.23
C770-185	25µL	50mm	0.50mm	Removable Needle	1/ea	\$44.26
C770-208	50µL	50mm	0.50mm	Removable Needle	1/ea	\$45.52
C770-239	100µL	50mm	0.50mm	Removable Needle	1/ea	\$47.82

10µL to 500µL

- Constructed from borosilicate glass, PTFE plunger tips and Kel-F® or PTFE Luer cones where applicable.
- Assembled with an interference fit between plunger tip and barrel to effect the gas sealing properties of the syringe.
- Plungers are replaceable on these syringes.

Accuracy and Reproducibility: ± 1%
 Borosilicate glass barrel OD: 10µL = 6.5mm 25-500µL = 8mm
 Scale Length: 10µL = 54.1mm 25-500µL = 60mm



25 Gauge Tip Style: Bevel

Part No.	Volume	Needle Length	O.D.	Description	Qty	List
C770-187	25µL	50mm	0.50mm	Fixed Needle	1/ea	\$40.11
C770-210	50µL	50mm	0.50mm	Fixed Needle	1/ea	\$40.95
C770-242	100µL	50mm	0.50mm	Fixed Needle	1/ea	\$44.51
C770-283	250µL	50mm	0.50mm	Fixed Needle	1/ea	\$45.86
C770-318	500µL	50mm	0.50mm	Fixed Needle	1/ea	\$43.66
C770-216	50µL	50mm	0.50mm	Removable Needle	1/ea	\$47.72
C770-248	100µL	50mm	0.50mm	Removable Needle	1/ea	\$52.55
C770-289	250µL	50mm	0.50mm	Removable Needle	1/ea	\$53.40
C770-323	500µL	50mm	0.50mm	Removable Needle	1/ea	\$53.40

Manual Syringes

Accuracy & Reproducibility: ± 1%
 Borosilicate glass barrel OD:
 1mL = 8.8mm
 2.5mL = 10.8mm
 5mL = 13.7mm
 10mL = 18mm
 25mL = 27mm
 50mL = 32.6mm
 100mL = 40.6mm
 Scale Length: 60mm (50mL = 81mm, 100mL = 114mm)
 Barrel Length: 106mm (50mL = 147mm, 100mL = 180mm)
 Overall Length (plunger at zero): 120mm (50mL = 164mm, 100mL = 202.5mm)
 Plunger Thread: 6-32UNC female (no plunger thread on either the 50mL or 100mL)
 Front Thread: 7/16UNEF male
 Replacement Plungers: Yes
 Max. Temperature: Fixed Needle or Luer 70°C
 Removable Needle or Luer 100°C



Part No.	Volume	Needle Length	Gauge	O.D.	Tip Style	Description	Qty	List
C770-347	1mL	50mm	.23	0.63mm	Bevel	Removable Needle	1/ea	\$64.99
C770-374	2.5mL	50mm	.23	0.63mm	Bevel	Removable Needle	1/ea	\$63.63
C770-387	5mL	50mm	.23	0.63mm	Bevel	Removable Needle	1/ea	\$72.94
C770-401	10mL	50mm	.23	0.63mm	Bevel	Removable Needle	1/ea	\$85.39
C770-391	5mL	n/a	n/a	n/a	n/a	Fixed Luer Lock	1/ea	\$51.20
C770-406	10mL	n/a	n/a	n/a	n/a	Fixed Luer Lock	1/ea	\$91.65
C770-389	5mL	n/a	n/a	n/a	n/a	Removable Luer Lock	1/ea	\$61.02
C770-404	10mL	n/a	n/a	n/a	n/a	Removable Luer Lock	1/ea	\$61.86
C770-349	1mL	50mm	.22	0.72mm	Bevel	Fixed Needle	1/ea	\$49.00
C770-375	2.5mL	50mm	.22	0.72mm	Bevel	Fixed Needle	1/ea	\$49.00

On-Column Injection

Employs the direct introduction of the liquid sample into the column. This is very useful for the analysis of thermally unstable samples and avoids boiling point discrimination. On-column injection requires special syringes with the following features:

- Small outer diameter needles adjusted to the inner diameter of the column (0.17mm needle for columns with 0.25mm inner diameter, 32 gauge for columns with 0.25mm inner diameter and 26 gauge for columns with a 0.53mm inner diameter)
- Longer needles tailored to pass through the injector and reach within the capillary column
- Point style 2 adapted to the typical septum of the on-column injector
- Small volumes of 5 or 10µL



Part No.	Volume	Termination	Gauge	O.D.	Tip Style	Qty	List
C676-830	10µL	Removable Needle	0.17mm	0.17mm	3	1/pk	\$71.00
C676-483	10µL	Cemented Needle	32	0.24mm	3	1/pk	\$47.00
C676-473	10µL	Removable Needle	0.17mm	0.17mm	3	1/pk	\$75.00
C676-829	10µL	Removable Needle	0.17mm	0.17mm	3	1/pk	\$56.00
C676-495	10µL	Removable Needle	32	0.24mm	2	1/pk	\$87.00

Purge and Trap Syringes

These syringes are ideal for Purge and Trap applications because you can easily remove the syringe plunger and load water samples into the syringe barrel. You can add an internal standard or surrogate sample directly to your sample through the twist valve with a 10µL syringe. You can also connect the sample syringe directly to the Purge and Trap valve via the integral male luer fitting.



Hamilton® 5 and 25mL Purge and Trap syringes were designed for the analysis of drinking water samples according to EPA purge and trap concentration techniques (see EPA methods 502.1, 502.2, 503.1, 524.1 and 524.2).

Part No.	Volume	Termination	Gauge	O.D.	Tip Style	Qty	List
C676-688	25mL	Special	n/a	n/a	n/a	1/pk	\$317.00
C676-669	5mL	Special	n/a	n/a	n/a	1/pk	\$154.00

HVDP 2-5 Valve

For Purge and Trap Syringes



Part No.	Description	Qty	List
C676-813	HVDP 2-5 Valve Black w/FEM Luer	1/pk	\$118.80

SampleLock™ Syringes

Allow you to collect, store, transport and analyze liquid or gaseous samples without the danger of evaporative loss or environmental contamination. Syringes are available in sizes ranging from 50µL to 100mL. An easy-to-use twist valve and a positive rear stop on SampleLock™ prevents loss of sample and plunger blowout. Optional male luer and female luer lock adapter threads on the SampleLock™ valve making the syringes compatible with a multitude of connectors and fittings.



Part No.	Volume	Termination	Gauge	O.D.	Tip Style	Qty	List
C676-638	1mL	Large RN	22	0.72mm	2	1/pk	\$149.00
C676-600	250µL	Large RN	22s	0.72mm	2	1/pk	\$120.00
C676-667	5mL	Large RN	22	0.72mm	2	1/pk	\$172.00

Super Syringes

Super syringe is a large volume Gastight® syringe. These syringes are ideal for dispensing volumes from 50mL up to 2L. The super syringe is the only Hamilton® Syringe that is made with an acrylic barrel instead of glass.



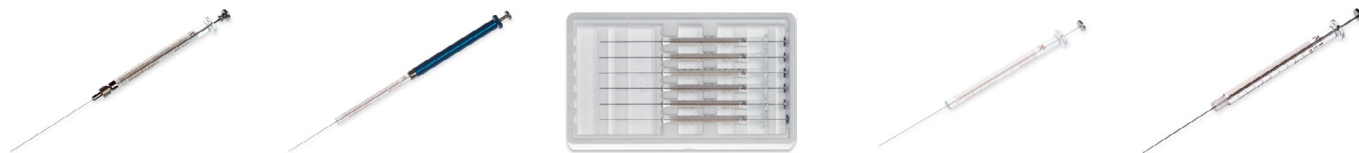
NDL Sold Separately.

Fluid Path: Buna-N, Nickel plated brass, PTFE, Silicone, Acrylic
 Termination: PTFE Luer Lock (TLL) Gas Sterilizable: Yes
 Pressure: 30 psig (2.1 bar) Max Temp: 80°C / 176°F
 Min Temp: 0°C / 32°F

Part No.	Volume	Barrel Inner Diam.	Barrel Outer Diam.	Qty	List
C676-761	500mL	2.44" (62.0mm)	2.95" (74.9mm)	1/ea	\$550.00
C676-762	1L	3.44" (87.4mm)	3.95" (100mm)	1/ea	\$565.00
C676-763	1.5L	3.44" (87.4mm)	3.95" (100mm)	1/ea	\$675.00
C676-764	2L	3.44" (87.4mm)	3.95" (100mm)	1/ea	\$855.00

Split/Splitless Injection

Consists of a heated chamber with a glass liner into which the sample is injected through the septum. A microsyringe is used to inject the sample through a rubber septum into a flash vaporizer chamber at the head of the column. The sample vaporizes to form a mixture of carrier gas, vaporized solvent and vaporized analytes. In the split mode, only a proportion of this mixture reaches the column but most exits through the split outlet. This avoids overloading the column. In the splitless mode, the split vent is closed so that the vaporized analyte passes onto the column. This mode is more sensitive and adequate for trace analysis.



Part No.	Volume	Termination	Gauge	O.D.	Tip Style	Qty	List
C676-756	0.5µL	Knurled Hub (KH)	25	0.515mm	2	1/pk	\$80.00
C676-449	1µL	Knurled Hub (KH)	25	0.515mm	2	1/pk	\$63.00
C676-750	1µL	Knurled Hub (KH)	22	0.718mm	2	1/pk	\$63.00
C676-412	10µL	Cemented Needle	26s	0.47mm	2	1/pk	\$27.00
C676-424	10µL	Removable Needle	26s	0.47mm	2	1/pk	\$48.00
C676-723	10µL	Cemented Needle	26s	0.47mm	2	1/pk	\$85.00
C676-724	10µL	Removable Needle	26s	0.47mm	2	1/pk	\$100.00
C676-494	10µL	Cemented Needle	26s	0.47mm	2	6/pk	\$110.00
C676-468	10µL	Cemented Needle	26s	0.47mm	2	1/pk	\$19.80
C676-478	10µL	Cemented Needle	26s	0.47mm	5	1/pk	\$45.00
C676-569	100µL	Cemented Needle	22s	0.72mm	2	1/pk	\$35.00
C676-576	100µL	Removable Needle	22s	0.72mm	2	1/pk	\$56.00
C676-729	100µL	Cemented Needle	22s	0.72mm	2	1/pk	\$93.00
C676-731	100µL	Removable Needle	22s	0.72mm	2	1/pk	\$106.00
C676-523	100µL	Cemented Needle	22s	0.72mm	2	1/pk	\$40.00
C676-863	2µL	Knurled Hub (KH)	25	0.515mm	2	1/pk	\$80.00
C676-867	2µL	Knurled Hub (KH)	23	0.642mm	2	1/pk	\$80.00
C676-446	25µL	Cemented Needle	22s	0.72mm	2	1/pk	\$40.00
C676-725	25µL	Cemented Needle	22s	0.72mm	2	1/pk	\$88.00
C676-727	25µL	Removable Needle	22s	0.72mm	2	1/pk	\$100.00
C676-505	25µL	Cemented Needle	22s	0.72mm	2	1/pk	\$35.00
C676-716	25µL	Cemented Needle	22s	0.72mm	2	1/pk	\$78.00
C676-589	250µL	Cemented Needle	22s	0.72mm	2	1/pk	\$48.00
C676-732	250µL	Removable Needle	22s	0.72mm	2	1/pk	\$112.00
C676-532	250µL	Cemented Needle	22s	0.72mm	2	1/pk	\$47.00
C676-535	250µL	Removable Needle	22s	0.72mm	2	1/pk	\$70.00
C676-833	5µL	Cemented Needle	26s	0.483mm	2	1/pk	\$35.00
C676-552	50µL	Cemented Needle	22s	0.72mm	2	1/pk	\$43.00
C676-553	50µL	Removable Needle	22s	0.72mm	2	1/pk	\$50.00
C676-726	50µL	Cemented Needle	22s	0.72mm	2	1/pk	\$91.00
C676-513	50µL	Cemented Needle	22s	0.72mm	2	1/pk	\$35.00
C676-518	50µL	Removable Needle	22s	0.72mm	2	1/pk	\$48.00
C676-609	500µL	Cemented Needle	22	0.72mm	2	1/pk	\$46.00
C676-614	500µL	Removable Needle	22	0.72mm	2	1/pk	\$56.00
C676-540	500µL	Cemented Needle	22	0.72mm	2	1/pk	\$51.00

REPLACEMENT NEEDLES

Needle - 50mm

- Needle length refers to the exposed length of the needle when fitted to syringe.
- Choose a different replacement needle by selecting the syringe volume, needle length, OD and tip style.
- For example, a 10µL MicroVolume syringe is supplied with a 50mm bevel tip needle. This can be replaced with any needle designed for 10µL syringes.

Part No.	Vol Fit	Gauge	OD	ID	Tip	Qty	List
C770-632	5µL	26	0.47mm	0.11mm	Bevel	5/pk	\$37.06
C770-650	10µL	26	0.47mm	0.11mm	Bevel	5/pk	\$34.35
C770-677	25-500µL	25	0.50mm	0.20mm	Bevel	5/pk	\$34.35
C770-678	25-500µL	23	0.63mm	0.24mm	Bevel	5/pk	\$51.28
C770-687	25-500µL	25	0.50mm	0.20mm	Side Hole/Dome	2/pk	\$61.09
C770-696	1-2.5mL	23	0.63mm	0.32mm	Bevel	5/pk	\$34.35

Luer Lock Needles

Part No.	Needle	Gauge	OD	ID	Tip	Qty	List
C770-711	50mm	23	0.63mm	0.32mm	Bevel	5/pk	\$34.35
C770-712	50mm	23	0.63mm	0.32mm	Side Hole/Dome	2/pk	\$42.48
C770-729	51mm (2")	22	0.028"	0.37mm	LC	2/pk	\$28.60

Plunger-in-Needle Kits

- Kits are supplied with both a plunger and a needle.
- Plunger and needle must be replaced together.

5µL 8mm OD Barrel

Part No.	Needle	Gauge	OD	Tip	Qty	List
C770-559	70mm	23	0.63mm	Cone	1/ea	\$42.99

Kel-F Hub (KF) Needles

Kel-F hub (KF) needles can be used with Luer Tip (LT) and PTFE Luer Lock (TLL) syringes and connectors. Standard needle length is 2" / 51mm. Kel-F hub (KF) needles are available in convenient six packs. Custom lengths and point styles are available. These needles are available from 10 - 31 gauge.

Autoclavable

Part No.	Length	Gauge	Tip Style	Qty	List
C676-995	2" (51mm)	20	3	6/pk	\$55.00
C676-979	2" (51mm)	22	3	6/pk	\$46.00



Metal Hub (nickel plated brass) Needles

Can be used with TLL syringes and LT or TLL connectors. The needles are 304 stainless steel. Standard needle length is 2" / 51mm. Metal hub (N) needles are available in convenient six packs. Custom needle lengths and point styles are available. These needles are available from 10 - 33 gauge.



Autoclavable

Part No.	Length	Gauge	Tip Style	Qty	List
C675-990	Custom	14	Custom	6/pk	\$69.00
C675-966	Custom	16	Custom	6/pk	\$48.00
C676-934	2" (51mm)	18	2	6/pk	\$31.00
C675-969	Custom	19	Custom	6/pk	\$44.00
C676-936	2" (51mm)	20	2	6/pk	\$32.00
C675-913	2" (51mm)	20	5	6/pk	\$99.00
C675-970	Custom	20	Custom	6/pk	\$42.00
C676-938	2" (51mm)	22	2	6/pk	\$31.00
C677-075	2" (51mm)	22	3	6/pk	\$31.00

Large Hub Removable (RN) Needles

Can be used with removable (RN)-style syringes that are 250µL and larger. Standard needle length is 2" / 51mm. Removable (RN) needles are available in convenient six packs. Custom lengths and point styles are available.

Autoclavable

Part No.	Length	Gauge	Tip Style	Qty	List
C676-079	2" (51mm)	22s	5	6/pk	\$110.00
C675-938	Custom	22s	Custom	6/pk	\$156.00



Small Hub Removable (RN) Needles

Can be used with removable (RN)-style syringes that are 100µL and smaller. Standard needle length is 2" / 51mm. Removable (RN) needles are available in convenient six packs. Custom lengths and point styles are available.

Autoclavable

Part No.	Length	Gauge	Tip Style	Qty	List
C676-057	2" (51mm)	22	2	6/pk	\$33.00
C676-059	2" (51mm)	22s	2	6/pk	\$33.00
C676-058	2" (51mm)	26s	2	6/pk	\$33.00



LIQUID CHROMATOGRAPHY**COLUMNS****Raptor® C18 LC Columns (USP L1)**

- A traditional end-capped C18 ideal for general-purpose use in reversed-phase chromatography.
- Wide pH range (2–8) provides excellent data quality for many applications, matrices and compounds.
- Offers the highest hydrophobic retention of any Raptor® phase.

Part No.	Particle Size	Length	I.D.	Qty	List
C789-998	2.7µm	50mm	2.1mm	1/pk	\$785.23
C789-992	2.7µm	100mm	2.1mm	1/pk	\$848.00

Raptor® Biphenyl LC Columns (USP L11)

- Ideal for bioanalytical testing applications like drug and metabolite analyses.
- Heightened selectivity and retention for compounds that are hard to resolve or elute early on C18 and other phenyl chemistries.
- Limits ionization suppression and allows simple, MS-friendly mobile phases.

Part No.	Particle Size	Length	I.D.	Qty	List
C786-314	2.7µm	50mm	2.1mm	1/pk	\$785.23
C786-308	2.7µm	100mm	2.1mm	1/pk	\$848.00
C786-316	2.7µm	50mm	3.0mm	1/pk	\$785.23

**Ultra Biphenyl Columns (USP L11)**

Particle Size:	3µm or 5µm, spherical	Pore Size:	100 Å
Carbon Load:	15%	End-Cap:	yes
pH Range:	2.5 to 8	Temperature Limit:	80°C
USP Phase:	L11	Phase Category:	phenyl
Ligand Type:	Unique Biphenyl		



Part No.	Particle Size	Length	I.D.	Qty	List
C781-944	5µm	100mm	2.1mm	1/pk	\$568.62

Ultra Cyano Columns (USP L10)

Particle Size:	3µm or 5µm, spherical	Pore Size:	100 Å
Carbon Load:	8%	End-Cap:	yes
pH Range:	2.5 to 8	Temperature Limit:	80°C
USP Phase Code:	L10	Phase Category:	cyano
Ligand Type:	Cyanopropylsilane		
Similar Phase(s):	Platinum CN, Develosil Cyano, Luna CN, Hypersil Gold CN		



Part No.	Particle Size	Length	I.D.	Qty	List
C781-890	5µm	150mm	4.6mm	1/pk	\$594.46

Ultra C18 Columns (USP L1)

Excellent for a wide range of analyses

Particle Size:	3µm or 5µm, spherical	Pore Size:	100 Å
Carbon Load:	20%	End-Cap:	yes
pH Range:	2.5 to 8	Temperature Limit:	80°C
USP Phase Code:	L1	Phase Category:	C18, octadecylsilane
Ligand Type:	Monomeric C18		
Similar Phase(s):	Discovery C18, Symmetry C18, Hypersil Gold C18, Luna C18, Zorbax C18, Kromasil C18, LiChrospher RP-18, Inertsil ODS-2, Develosil C18		



Part No.	Particle Size	Length	I.D.	Qty	List
C785-946	5µm	150mm	3.0mm	1/pk	\$594.46
C782-118	5µm	150mm	4.6mm	1/pk	\$594.46
C782-125	5µm	250mm	4.6mm	1/pk	\$685.54

GUARD COLUMNS

Raptor® EXP Guard Column Cartridges

- Free-Turn architecture lets you change cartridges by hand without breaking inlet/outlet fluid connections, no tools needed.
- Patented titanium hybrid ferrules can be installed repeatedly without compromising high-pressure seal.
- Auto-adjusting design provides ZDV (zero dead volume) connection to any 10-32 female port.
- Guard column cartridges require EXP direct connect holder (cat.# C779-420).
- Pair with EXP hand-tight fitting (cat.# C779-455–C779-457) for tool-free installation.



Part No.	Particle Size	Size	Qty	List
C789-990	2.7µm	5 x 2.1mm	3/pk	\$534.15
C786-307	2.7µm	5 x 3.0mm	3/pk	\$534.15
C786-306	2.7µm	5 x 2.1mm	3/pk	\$534.15

Ultra Guard Cartridges

Particle size: 5µm spherical
Pore size: 100 Å

For a detailed description of the stationary phase in this guard cartridge, see the product page for an analytical column with the same silica and stationary phase (e.g., Ultra C18).



Part No.	Particle Size	Size	Qty	List
C783-129	5µm	10 x 4.0mm	3/pk	\$210.46
C783-090	5µm	10 x 4.0mm	3/pk	\$210.46

Roc® LC Guard Column Cartridges

Protect your Roc® LC columns with minimal effect on retention, peak shape or efficiency.

- Guard column cartridges require Roc® guard column holder (cat.# C786-962).



Part No.	Description	Qty	List
C787-595	Roc C8 Guard	3/pk	\$147.69
C787-596	Roc C18 Guard	3/pk	\$147.69
C787-598	Roc Cyano Guard	3/pk	\$147.69
C787-597	Roc Phenyl-Hexyl Guard	3/pk	\$147.69
C787-594	Roc Silica Guard	3/pk	\$147.69

Fittings, Connectors & Accessories

Replacement Cap Frit Filters for Trident Guard Cartridges

Replacement guard cartridges can cost as much as an analytical column, so why not protect them, too? The removable cap frit filter in a Trident direct helps prevent clogged cartridges to extend the life of your column, your cartridge and your budget.

- Use 2mm cap frit filters with 1.0–2.1mm ID analytical columns.
- Use 4mm cap frit filters with 3.0–4.6mm ID analytical columns.



Part No.	I.D.	Porosity	Qty	List
C778-988	4mm	2.0µm	1/ea	\$44.31

EXP Direct Connect Holder

Free-Turn architecture lets you change cartridges by hand without breaking inlet/outlet fluid connections, no tools needed.

- Patented titanium hybrid ferrules can be installed repeatedly without compromising high-pressure seal.
- Auto-adjusting design provides ZDV (zero dead volume) connection to any 10-32 female port.
- EXP direct connect holder requires separate guard column cartridges.



Part No.	Description	Qty	List
C779-420	EXP Direct Connect Holder for EXP Guard Cartridges (includes hex-head fitting & 2 ferrules)	1/ea	\$461.54

ProteCol™ PEEK

Fingertight Fittings & High Efficiency Column Coupler Spare Parts

Part No.	Description	Qty	List
C771-994	1/16" to 10-32UNF	1/ea	\$58.85
C771-995	1/32" to 10-32UNF (long)	5/pk	\$59.54
C772-005	1/32" to 10-32UNF	1/ea	\$61.39
C772-012	1/32" to 6-40UNF	5/pk	\$61.97
C771-118	Replacement PEEKsil Tubing (1/16" x 175µm ID x 50mm)	5/pk	\$69.14
C771-323	Replacement PEEK™ Ferrules	10/pk	\$97.05



Hexnut Fittings

- Stainless steel 10-32 thread fittings use a non-swaging Kel-F™ or PEEK™ replaceable ferrule
- Inert contact surfaces make them biocompatible
- Ideal for applications where corrosive solvents are being used
- Hexnut with Kel-F™ or PEEK™ ferrules are recommended for use with SGE GLT™ columns

Maximum Pressure Rating: 5,000psi
 Thread Type: 10-32



Part No.	Description	Qty	List
C771-322	Kel-F Ferrules	10/pk	\$57.69
C771-769	Stainless Steel Hexnuts / PEEK™ Ferrules	2 Hexnuts, 2 Ferrules	\$27.92
C771-770	Stainless Steel Hexnuts / PEEK™ Ferrules	10 Hexnuts, 10 Ferrules	\$81.35

EasyLOK Fittings

EasyLOK fittings are composed of a knurled stainless steel nut and a double ended PEEK™ ferrule. The PEEK™ ferrule simply slides over any 1/16" OD tubing to its required position, while the nut is finger tightened. Unlike stainless steel, the PEEK™ ferrule will not crush the tubing and can be easily readjusted for quick column changes.

The unique double ended ferrule design seals at two points to prevent leaks.

The fittings are compatible with any standard female HPLC fitting, including Swagelok®, Parker™, Waters®, Valco® and Whatman®.

EasyLOK fittings are recommended for use with SGE GLT™ columns.

Maximum Pressure Rating: 5,000psi
 Thread Type: 10-32

Part No.	Description	Qty	List
C771-992	EasyLOK Fitting	2 Fittings, 2 Ferrules	\$35.20
C771-993	PEEK™ Double Ended Ferrules	10/pk	\$50.43

Piston Seals for Agilent™ HPLC Systems

Piston seals wear out over time. Choose these graphite-filled PTFE seals, which are best for organic solvents.



Part No.	Description	Model#	Qty	List
C777-459	PTFE w/Graphite Black	1050, 1100 & 1200	2/pk	\$103.39

Hub-Cap 4-Liter Bottle Tops

Hub-Cap bottle tops are a great way to neatly keep your mobile phase lines where they belong. Use them instead of plastic paraffin film, aluminum foil or tape on your mobile phase reservoirs.



Part No.	Description	Qty	List
C779-821	Hub-Cap (assembly of the bottle cap & plug)	1/ea	\$75.85

Opti-Cap Tops

The most economical way to helium-sparge and deliver LC mobile phases. Opti-Cap tops fit all standard GL-45 bottles and have two 1/8" holes and one 1/16" hole for tubing. All three openings are designed for threaded PEEK™ plugs.



Part No.	Description	Similar To	Qty	List
C779-195	Cap & Peek Plug	Agilent 5063-6531, Grace 10973, 2106324, 9541 & 5130238	1/ea	\$73.23

Part No.	Description	Includes	Qty	List
C779-197	Kit w/ 1L Bottle	Opti-Cap, 3 Meters of Tubing, 2µm & 10µm Sparging Filters, 1L Bottle	1/ea	\$189.62

Low-Pressure Slip-On Inlet Filter for Mobile Phase Reservoir

A 316 stainless steel tip with a Tefzel® collar seals to a corrosion-resistant 316 stainless steel filter element. The slip-on filter easily attaches to the pump inlet line, without the use of wrenches. The universal 1/8" OD tip accommodates standard PTFE tubing inner diameters. The cylindrical filter is standard 10µm porosity. Fits Altex, ISCO, LDC, Varian™, Waters®, PerkinElmer® and other pumps.



Part No.	Description	Qty	List
C778-976	Slip-On Inlet Filter	1/ea	\$43.15

Tubing Burring & Reaming Tool

Removes burrs and reams tubing.



Part No.	Description	Similar To	Size	Qty	List
C776-136	Tubing Dressing Tool	Grace 10-0118, 8603100	for 1/8" O.D. Tubing	1/ea	\$185.69

EXP Reusable Fittings for HPLC & UHPLC for 10-32 fittings and 1/16" Tubing EXP Hand-Tight Fittings

- Hand-tight fitting style achieves effortless HPLC seals—no tools needed for a 8,700+ psi seal.
- Both hand-tight and hex-head styles wrench-tighten for reliable UHPLC use up to 20,000+ psi!
- Patented ferrule can be installed repeatedly without compromising high-pressure seal.
- Hybrid design combines the durability of titanium with the sealing ability of PEEK™.
- Cutting-edge system provides ZDV (zero dead volume) connection to any 10-32 female port.
- Compatible with 1/16" PEEK™ and stainless steel tubing.



Part No.	Description	Qty	List
C779-455	EXP Hand-Tight Fitting (nut w/ferrule)	1/ea	\$60.92

Nuts & Ferrules (1/16-Inch Stainless Steel) For Valco® Connectors

Select line of Valco® fittings for connecting fused silica or 1/16- or 1/8-inch metal tubing. Valco® fittings have been designed for the specific demands of instrumentation and manufactured with the tight tolerances and premium quality that analysts require. If you don't see the Valco® fitting you need, please request special ordering information.



Part No.	Size	Material	Qty	List
C776-216	1/16"	Stainless Steel	10/pk	\$62.31

Universal 10-32 PEEK™ Column Connectors and Plugs

Universal PEEK™ connectors allow easy installation of all 1/16" tubing, including stainless steel, up to 5,000 psi.



Part No.	Description	Similar to	Qty	List
C778-982	Beige, Round Body	Agilent 5063-6591 & Grace Z227250, 5132970	10/pk	\$53.62

PTFE Tubing

- Ideal for mobile phase inlet lines.
- Chemically inert.
- Use to 500 psi (3,447 kPa) and 80°C.



Part No.	Similar To	I.D.	Length	Material	O.D.	Qty	List
C779-202	Grace 20096, 3112413	0.094" (2.4mm)	3m	PTFE	1/8"	1/ea	\$36.62

Inert PEEK Tubing

- Replaces stainless steel, titanium, PTFE or Tefzel® tubing.
- Less oxygen permeable and more temperature resistant (to 100°C) than PTFE or Tefzel tubing.
- Use with PEEK finger-tight or flangeless fittings.
- Use tubing ≤ 0.007" to 7,000 psi; tubing ≥ 0.010" ID to 5,000 psi.



Part No.	Color	I.D.	Length	Material	O.D.	Qty	List
C779-212	Natural	0.0025"	1m	PEEK	1/16"	3/pk	\$99.39
C779-027	Red Stripe	0.005"	3m	PEEK	1/16"	1/pk	\$51.00
C779-028	Yellow Stripe	0.007"	3m	PEEK	1/16"	1/pk	\$53.62
C779-029	Blue Stripe	0.010"	3m	PEEK	1/16"	1/pk	\$53.62
C779-030	Orange Stripe	0.020"	3m	PEEK	1/16"	1/pk	\$53.62

Zero Dead Volume Valco Internal Union

Ends of tubing seat squarely at bottoms of fitting details. Made of 300-series stainless steel. For use with 1/16" OD tubing. Stainless steel ferrules included.



Part No.	Similar To	Union Bore	Qty	List
C776-102	Grace 28627, 3112448	0.25mm	1/ea	\$42.92
C776-103	n/a	0.75mm	1/ea	\$34.62

AUTOSAMPLER SYRINGES

HPLC Autosampler Syringes For CTC Units

All needles are 51mm long (effective length), 0.72mm OD (22 gauge) and have an LC point style.

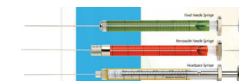


Part No.	Volume	Gas Tight	Termination	Replacement Needle	Qty	List
C770-257	100µL	Yes	Fixed	C770-479	1/ea	\$73.37

For CTC/ LEAP PAL, Agilent™ 1290 Infinity LC Injector HTC HTS, Waters® 2777 Sample Manager, & Dionex Ultimate 3000 Units

Needle has a 0.13mm I.D. with a 0.711mm O.D. 22s Gauge.

Part No.	Volume	Gas tight	Termination	Qty	List
C675-374	10µL	Yes	Fixed	1/ea	\$79.00



For Waters® 717 Plus & WISP units

No Needle Available.

Part No.	Volume	Gas tight	Termination	Qty	List
C676-423	250µL	Yes	ChemSeal	1/ea	\$124.00



For PerkinElmer® Series 200 units

No Needle Available.

Part No.	Volume	Gas tight	Termination	Qty	List
C676-602	250µL	Yes	ChemSeal	1/ea	\$75.00



For Shimadzu™ SIL-6A Units

Needle Sold Separately.

Part No.	Volume	Gas tight	Termination	Qty	List
C675-892	100µL	Yes	Removable Needle	1/ea	\$50.00



Autosampler Syringes

A rugged polytetrafluoroethylene (PTFE) plunger tip for Gastight® applications, an economical design to give true value at an affordable price, strictly machined tolerances for reproducible results from injection-to-injection and glass barrel surface finish for superior syringe life.



For Agilent™ ProStar, Spark Holland Midas, Triathlon, Endurance and Alias Models. Works with Antec AS 100 & AS 110. Waters® 2707 units. Dionex ESA Model 542, 540 & 540 MT. PerkinElmer® Series 225, Flexar FX-10 & FX-15. Varian™ Bruker™ ProStar™ 410, 420 & 430. Beckman Coulter 508 & Grace Alltech Model 580.

Part No.	Volume	Gas Tight	Termination	Qty	List
C675-770	1mL	Yes	ChemSeal	1/ea	\$80.00
C675-767	100µL	Yes	ChemSeal	1/ea	\$80.00
C675-771	2.5mL	Yes	ChemSeal	1/ea	\$80.00
C675-784	25µL	Yes	ChemSeal	1/ea	\$105.00
C675-768	250µL	Yes	ChemSeal	1/ea	\$80.00
C675-769	500µL	Yes	ChemSeal	1/ea	\$80.00

CTC PAL RTC (Robotic Tool Change) LC Syringes

Part No.	Volume	Needle Length	Gauge	OD	Tip Style	Qty	List
C770-753	10µL	57mm	22	0.72mm	LC	1/ea	\$84.54
C770-359	1000µL	57mm	22	0.72mm	LC	1/ea	\$168.05

CTC PAL

All needles are 51mm long (effective length), 0.72mm OD (22 gauge) and have an LC point style.

Part No.	Volume	Gas Tight	Termination	Qty	List
C770-108	10µL	No	Fixed	1/ea	\$75.82
C770-198	25µL	Yes	Fixed	1/ea	\$110.34
C770-231	50µL	Yes	Fixed	1/ea	\$103.15
C770-256	100µL	Yes	Removable	1/ea	\$76.08



PerkinElmer® Series 200 LC Autosampler Syringes

Part No.	Volume	Gas Tight	Termination	Qty	List
C770-236	50µL	Yes	1/4-28 UNF Screw Thread	1/ea	\$72.09
C770-278	100µL	Yes	1/4-28 UNF Screw Thread	1/ea	\$77.43
C770-314	250µL	Yes	1/4-28 UNF Screw Thread	1/ea	\$72.09
C770-342	500µL	Yes	1/4-28 UNF Screw Thread	1/ea	\$72.94
C770-365	1mL	Yes	1/4-28 UNF Screw Thread	1/ea	\$90.80
C770-386	2.5mL	Yes	1/4-28 UNF Screw Thread	1/ea	\$69.65

****Syringes also available for Hitachi, Thermo Scientific™, Spark Holland and Waters® WISP**

MANUAL SYRINGES

Syringes are handmade with an unmatched attention to detail. The manufacturing process and quality assurance procedures ensure that every syringe will provide superior accuracy and precision as well as cycle life. The electropolished needle slides smoothly into the injection port reducing the wear on valuable seals. Tip - 3.



For Rheodyne, Valco, Beckman & SSI Valves

Part No.	Volume	Gas Tight	Termination	Gauge	I.D. & O.D.	Qty	List
C676-428	10µL	Yes	Removable	22s	0.15 & 0.72mm	1/ea	\$48.00
C676-587	100µL	Yes	Cemented	22s	0.15 & 0.72mm	1/ea	\$46.00
C676-585	100µL	Yes	Removable	22s	0.15 & 0.72mm	1/ea	\$56.00
C676-531	100µL	n/a	Cemented	22s	0.15 & 0.72mm	1/ea	\$40.00
C676-466	25µL	Yes	Cemented	22s	0.15 & 0.72mm	1/ea	\$40.00
C676-459	25µL	Yes	Removable	22s	0.15 & 0.72mm	1/ea	\$48.00
C676-512	25µL	n/a	Cemented	22s	0.15 & 0.72mm	1/ea	\$35.00
C676-605	250µL	Yes	Cemented	22	0.41 & 0.72mm	1/ea	\$51.00
C676-604	250µL	Yes	Cemented	22s	0.15 & 0.72mm	1/ea	\$48.00
C676-603	250µL	Yes	Removable	22	0.41 & 0.72mm	1/ea	\$56.00
C676-538	250µL	n/a	Cemented	22	0.41 & 0.72mm	1/ea	\$47.00
C676-561	50µL	Yes	Cemented	22s	0.15 & 0.72mm	1/ea	\$43.00
C676-560	50µL	Yes	Removable	22s	0.15 & 0.72mm	1/ea	\$50.00
C676-522	50µL	n/a	Cemented	22s	0.15 & 0.72mm	1/ea	\$40.00
C676-608	500µL	Yes	Cemented	22	0.41 & 0.72mm	1/ea	\$46.00
C676-621	500µL	Yes	Removable	22	0.41 & 0.72mm	1/ea	\$56.00
C676-545	500µL	n/a	Cemented	22	0.41 & 0.72mm	1/ea	\$56.00



Beckman/Altex, Rheodyne, SSI, Valco® Valves

Note: Users of older Valco® injectors requiring 3/4" long needles must fit a Valco® VISF-2 adapter

When using the complete loop fill technique, the syringe capacity should be greater than twice the loop volume. The loop capacity sets the injection volume.

For the partial loop fill technique, the injection volume should be no greater than half the loop capacity.

The injection size sets the injection volume.



Fixed Needle

Part No.	Volume	Needle Length	Gauge	OD	Tip Style	Qty	List
C770-042	5µL	.2"	22	0.028"	LC	1/ea	\$39.77
C770-095	10µL	.2"	22	0.028"	LC	1/ea	\$29.03
C770-191	25µL	.2"	22	0.028"	LC	1/ea	\$36.22
C770-219	50µL	.2"	22	0.028"	LC	1/ea	\$35.51
C770-253	100µL	.2"	22	0.028"	LC	1/ea	\$34.35

Fixed Needle - Superflex Plunger

Part No.	Volume	Needle Length	Gauge	OD	Tip Style	Qty	List
C770-094	10µL	.2"	22	0.028"	LC	1/ea	\$37.91
C770-099	10µL	.2"	22	0.028"	LC	6/pk	\$213.06

Removable Needle

Part No.	Volume	Needle Length	Gauge	OD	Tip Style	Qty	List
C770-097	10µL	.2"	22	0.028"	LC	1/ea	\$46.71
C770-193	25µL	.2"	22	0.028"	LC	1/ea	\$49.85
C770-221	50µL	.2"	22	0.028"	LC	1/ea	\$46.71
C770-255	100µL	.2"	22	0.028"	LC	1/ea	\$52.97

VALVES

For Hamilton® Autosampler Syringes with ChemSeal or 1/4 - 28 UNF Male Fitting Termination

Housing Material: Aluminum
 Fluid Path: PTFE/CTFE
 Operating Temp High: 38°C (100°F)
 Operating Temp Low: -12°C (10°F)
 Operating Pressure: 0 to 100 psig (0 to 6.9 bar)
 Storage Temp High: 38°C (100°F)
 Storage Temp Low: -18°C (0°F)



Part No.	Description	Qty	List
C675-708	HV Valve (ML501A/ML510B) HV, Single Valve	1/ea	\$111.00
C676-802	HVP1-1 Valve 180° Flow Path 2-ports	1/ea	\$86.90
C676-814	HVX1-1 Valve 180° Flow Path 2-ports	1/ea	\$154.00

***Contact us for Other Valve Options

REPLACEMENT NEEDLES

For SGE Autosampler Syringes

Part No.	Description	Qty	List
C770-672	For C770-153 Syringe	2/pk	\$38.85
C770-684	For C770-256 Syringe	5/pk	\$34.35



Luer Lock Needles
 Kel-F Hub
 Metal Hub



Stainless Steel Tubing
 Stainless Steel Raw
 Stainless Steel with Point Style



Glass Needle Fittings



PEEK Needle



Gel Loading Syringe Needles
 Adjustable Multichannel
 Multichannel



Venting Needles



Valve Port - Hat Type
 Needles



Removable Needles
 Large Hub Removable Needles
 Small Hub Removable Needles
 Small Hub RN CTC Needles



Thin Layer Chromatography

****Replacement plungers available for select syringes.**

STANDARDS

Oil and Grease Method 1664 Par Surrogate Snip 0.2% 10mL

0.2% Oil/Grease Surrogate SNIPS. Each single use PTFE SNIP contains 10mL of 0.2% n-hexadecane/stearic acid in acetone for a total oil/grease of 40mg per SNIP. To use, snip open the top of the tube and transfer contents to matrix blank. Easy, fast and accurate. Meets Method 1664 requirements. 20 x 10mL SNIPS per box. Stores at room temperature. A NIST Traceable Reference Material.

Part No.	List
QC-003LSNIP	\$108.89

Volatile Organic Compounds 2.0mg/mL in MeOH 1mL

Number of Components: 6
 Unit: 1mL
 Concentration: 2000µg/mL
 Storage conditions: Refrigerate (0-5°C)

Analyte	CAS #	Target Concentration
Bromomethane	74-83-9	2000µg/mL
Chloroethane	75-00-3	2000µg/mL
Chloromethane	74-87-3	2000µg/mL
Dichlorodifluoromethane	75-71-8	2000µg/mL
Trichlorofluoromethane	75-69-4	2000µg/mL
Vinyl chloride	75-01-4	2000µg/mL

Properties

Molecular Formula: N/A
 Molecular of Weight: N/A
 Melting Point: -93.9°C
 Boiling Point: 65°C
 Flash Point: 52°F (11°C) (tcc)

Part No.	List
M502B10X.....	\$46.67

Method 8260 Additions 2.0mg/mL in MeOH 1mL

Number of Components: 8
 Unit: 1mL
 Concentration: 2mg/mL
 Storage Condition: Freeze (<-10°C)

Analyte	CAS #	Target Concentration
Acetone	67-64-1	2mg/mL
2-Butanone	78-93-3	2mg/mL
Carbon disulfide	75-15-0	2mg/mL
2-Chloroethylvinyl ether	110-75-8	2mg/mL
2-Hexanone	591-78-6	2mg/mL
Iodomethane	74-88-4	2mg/mL
4-Methyl-2-pentanone	108-10-1	2mg/mL
Vinyl acetate	108-05-4	2mg/mL

Properties

Molecular Formula: N/A
 Molecular of Weight: N/A
 Melting Point: -93.9°C
 Boiling Point: 65°C
 Flash Point: 52°F (11°C) (tcc)

Part No.	List
M8260ADD10X	\$40.00

VOC Gas Mixture 6 Analyte(s) @ 2000ug/mL in Methanol 1 x 1mL

Analyte	Concentration
bromomethane	2000µg/mL
chloroethane	2000µg/mL
chloromethane	2000µg/mL
dichlorodifluoromethane	2000µg/mL
trichlorofluoromethane	2000µg/mL
vinyl chloride	2000µg/mL

Matrix Details
 Matrix Methanol (methyl alcohol)

Part No.	List
DWM-544-1	\$84.48

Acrolein-Acrylonitrile Mixture 2 Analyte(s) @ 2000ug/mL in Methanol 1 x 1mL

Analyte	Concentration
acrolein	2000µg/mL
acrylonitrile	2000µg/mL

Matrix Details
 Matrix Methanol (methyl alcohol)

Part No.	List
AMN-623-1	\$37.33

EPA Method 501 Trihalomethane Mixture 4 Analytes @ 5000ug/mL in Methanol 1 x 1mL

Analyte	Concentration
bromodichloromethane	5000µg/mL
bromoform	5000µg/mL
chloroform	5000µg/mL
dibromochloromethane	5000µg/mL

Matrix Details
 Matrix Methanol (methyl alcohol)

Part No.	List
THM-521-1	\$93.75

2-Chloroethylvinyl Ether Solution 1 Analyte(s) @ 5000ug/mL in Methanol 1 x 1mL

Analyte	Concentration
2-chloroethylvinyl ether	5000µg/mL

Matrix Details
 Matrix Methanol (methyl alcohol)

Part No.	List
EPA-1016-1	\$55.70

Conductivity Standard 4,600umhos 500mL

No test methods are available.

Part No.	List
6957-500	\$16.16



Conductivity Standards 1413µS/cm at 25°C 32oz 1L

No test methods are available.

Part No.	List
2236.52-32	\$48.63

Conductivity Standard 1000µS/cm at 25°C (495ppm TDS as NaCl) 32oz 1L

No test methods are available.

Part No.	List
2243-32	\$48.63

Calcium Chloride Standard 1000ppm (CaCO₃) (400ppm Ca), 0.0100 M Ca²⁺, 0.0200 N Ca²⁺ 32oz

This product is certified as a reagent for the following test methods:

Part No.	List
1780-32	\$62.90

Reference	Method	Test	Reagent #	Reagent Name
ASTM	Complexometric Titration	Calcium & Magnesium	11.3	Calcium Solution, Standard (1.00mL = 0.400mg calcium)
APHA	EDTA Titrimetric Method	Hardness	2e	Standard calcium solution
TAPPI	Calcium in pulp	N/A	5.3	Standard calcium solution, 0.01 M
EPA	Titrimetric, EDTA	Calcium	5.3.1	Standard Calcium Solution, 0.02 N
EPA	Colorimetric, Automated EDTA	Hardness	6.4	Stock Solution, 1.0mL = 1.0mg CaCO ₃
EPA	Titrimetric, EDTA	Hardness	6.5.1	Standard Calcium Solution, 0.02 N

Looking for ICP-MS products?

We have a whole section dedicated to ICP-MS starting on page 221.

From Cones to Torches with custom glassware options also available.

Contact us for more information.



8260 MegaMix Calibration Mix Revised

Part No.	Qty	List
C780-002.....	1/ea	\$178.46

- Contains 75 compounds in one convenient ampul for the analysis of VOCs in solid waste.
 - Quantitatively analyzed to confirm concentration and identity of each compound.
 - Excludes pentachloroethane for labs experiencing elevated tetrachloroethene response caused by pentachloroethane breakdown.
- Conc. In Solvent & Volume: 2,000µg/mL each in P&T methanol, 1mL/ampul
 Shelf life: Min 6 Months on ship date
 Certified Reference Material: Yes

Compounds		
Acetonitrile (75-05-8)	1,4-Dichlorobenzene (106-46-7)	Methyl methacrylate (80-62-6)
Acrylonitrile (107-13-1)	cis-1,4-Dichloro-2-butene (1476-11-5)	Methylene chloride (dichloromethane) (75-09-2)
Allyl chloride (3-chloropropene) (107-05-1)	trans-1,4-Dichloro-2-butene (110-57-6)	Naphthalene (91-20-3)
Benzene (71-43-2)	1,1-Dichloroethane (75-34-3)	Nitrobenzene (98-95-3)
Bromobenzene (108-86-1)	1,2-Dichloroethane (107-06-2)	2-Nitropropane (79-46-9)
Bromochloromethane (74-97-5)	1,1-Dichloroethene (75-35-4)	Propionitrile (107-12-0)
Bromodichloromethane (75-27-4)	cis-1,2-Dichloroethene (156-59-2)	n-Propylbenzene (103-65-1)
Bromoform (75-25-2)	trans-1,2-Dichloroethene (156-60-5)	Styrene (100-42-5)
n-Butylbenzene (104-51-8)	1,2-Dichloropropane (78-87-5)	1,1,1,2-Tetrachloroethane (630-20-6)
sec-Butylbenzene (135-98-8)	1,3-Dichloropropane (142-28-9)	1,1,2,2-Tetrachloroethane (79-34-5)
tert-Butylbenzene (98-06-6)	2,2-Dichloropropane (594-20-7)	Tetrachloroethene (127-18-4)
Carbon disulfide (75-15-0)	1,1-Dichloropropene (563-58-6)	Tetrahydrofuran (109-99-9)
Carbon tetrachloride (56-23-5)	cis-1,3-Dichloropropene (10061-01-5)	Toluene (108-88-3)
Chlorobenzene (108-90-7)	trans-1,3-Dichloropropene (10061-02-6)	1,2,3-Trichlorobenzene (87-61-6)
2-Chloroethanol (107-07-3)	Diethyl ether (ethyl ether) (60-29-7)	1,2,4-Trichlorobenzene (120-82-1)
Chloroform (67-66-3)	1,4-Dioxane (123-91-1)	1,1,1-Trichloroethane (71-55-6)
Chloroprene (2-chloro-1,3-butadiene) (126-99-8)	Ethylbenzene (100-41-4)	1,1,2-Trichloroethane (79-00-5)
2-Chlorotoluene (95-49-8)	Ethyl methacrylate (97-63-2)	Trichloroethene (79-01-6)
4-Chlorotoluene (106-43-4)	Hexachloro-1,3-butadiene (87-68-3)	1,2,3-Trichloropropane (96-18-4)
Dibromochloromethane (124-48-1)	Iodomethane (methyl iodide) (74-88-4)	1,1,2-Trichlorotrifluoroethane (CFC-113) (76-13-1)
1,2-Dibromo-3-chloropropane (DBCP) (96-12-8)	Isobutyl alcohol (2-methyl-1-propanol) (78-83-1)	1,2,4-Trimethylbenzene (95-63-6)
1,2-Dibromoethane (EDB) (106-93-4)	Isopropylbenzene (cumene) (98-82-8)	1,3,5-Trimethylbenzene (108-67-8)
Dibromomethane (74-95-3)	4-Isopropyl toluene (p-cymene) (99-87-6)	m-Xylene (108-38-3)
1,2-Dichlorobenzene (95-50-1)	Methacrylonitrile (126-98-7)	o-Xylene (95-47-6)
1,3-Dichlorobenzene (541-73-1)	Methyl acrylate (96-33-3)	p-Xylene (106-42-3)

Anion Kit

Part No.	Qty	List
IC-AN-10X-1-SET.....	1/ea	\$313.33

Part Number	Description	Matrix	Unit
IC-BR-10X-1	Anion Standard - Bromide	1000 µg/mL in Water	100 mL
IC-CL-10X-1	Anion Standard - Chloride	1000 µg/mL in Water	100 mL
IC-F-10X-1	Anion Standard - Fluoride	1000 µg/mL in Water	100 mL
IC-NO2-10X-1	Anion Standard - Nitrite	1000 µg/mL in Water	100 mL
IC-NO3-10X-1	Anion Standard - Nitrate	1000 µg/mL in Water	100 mL
IC-PO4-10X-1	Anion Standard - Phosphate	1000 µg/mL in Water	100 mL
IC-SO4-10X-1	Anion Standard - Sulfate	1000 µg/mL in Water	100 mL



Cation Kit

Part No.	Qty	List
IC-CAT-2X-5-SET	1/ea	\$420.00

Catalog Number	Description	Matrix	Unit
IC-BA-2X-5	Cation Standard - Barium	200 µg/mL in Water, tr Nitric acid	500 mL
IC-CA-2X-5	Cation Standard - Calcium	200 µg/mL in Water, tr Nitric acid	500 mL
IC-K-2X-5	Cation Standard - Potassium	200 µg/mL in Water, tr Nitric acid	500 mL
IC-LI-2X-5	Cation Standard - Lithium	200 µg/mL in Water, tr Nitric acid	500 mL
IC-MG-2X-5	Cation Standard - Magnesium	200 µg/mL in Water, tr Nitric acid	500 mL
IC-NA-2X-5	Cation Standard - Sodium	200 µg/mL in Water, tr Nitric acid	500 mL
IC-NH4-2X-5	Cation Standard - Ammonium	200 µg/mL in Water	500 mL
IC-SR-2X-5	Cation Standard - Strontium	200 µg/mL in Water, tr Nitric acid	500 mL

IC Anions Standard

5 Analyte(s) @ various concentrations in water
(low TOC, < 50 ppb)

Part No.	Qty	List
ICC-200	1/ea	\$244.60

Analyte	Concentration
chloride	30 µg/mL
fluoride	20 µg/mL
nitrate	100 µg/mL
phosphate	150 µg/mL
sulfate	150 µg/mL

Matrix Details

Matrix water

IC Anions Standard

6 Analyte(s) @ various concentrations in water
(low TOC, < 50 ppb)

Part No.	Qty	List
ICC-210	1/ea	\$305.63

Analyte	Concentration
bromide	400 µg/mL
chloride	200 µg/mL
fluoride	100 µg/mL
nitrate	400 µg/mL
phosphate	600 µg/mL
sulfate	400 µg/mL

Matrix Details

Matrix water

Anion Kit - Revision

Part No.	Qty	List
IC-AN-R-10X-1-SET	1/ea	\$313.33

Part Number	Description	Matrix	Unit
IC-BR-10X-1	Anion Standard - Bromide	1000 µg/mL in Water	100mL
IC-CL-10X-1	Anion Standard - Chloride	1000 µg/mL in Water	100mL
IC-F-10X-1	Anion Standard - Fluoride	1000 µg/mL in Water	100mL
IC-NO2-N-10X-1	Anion Standard - Nitrite as Nitrogen	1000 µg/mL in Water	100mL
IC-NO3-N-10X-1	Anion Standard - Nitrate as Nitrogen	1000 µg/mL in Water	100mL
IC-PO4-P-10X-1	Anion Standard - Phosphate as Phosphorus	1000 µg/mL in Water	100mL
IC-SO4-S-10X-1	Anion Standard - Sulfate as Sulfur	1000 µg/mL in Water	100mL

Ion Chromatography Detector Linearity Kit

Kit contains five ampules, vials or bottles at varying concentrations.

Part No.	Description	List
ICC-759	Linearity Kit	\$168.85

	Analyte	Concentration
Ampule #1	nitrate	5 µg/mL (1 x 10mL)
Ampule #2	nitrate	10 µg/mL (1 x 10mL)
Ampule #3	nitrate	25 µg/mL (1 x 10mL)
Ampule #4	nitrate	50 µg/mL (1 x 10mL)
Ampule #5	nitrate	100 µg/mL (1 x 10mL)

Single Component IC Standards

1 Analyte(s) @ 1000 µg/mL in water (low TOC, < 50 ppb)
125 mL

Part No.	Description	List
ICC-014	Acetate	\$74.90
ICC-015	Benzoate	\$74.90
ICC-010	Bromate	\$74.90
ICC-001	Bromide	\$74.90
ICC-011	Chlorate	\$74.90
ICC-002	Chloride	\$74.90

Gauge Index

Note: The 's' on a 22s needle represents a smaller I.D. (inner diameter) for the needle and a thicker needle wall for better durability. For example, a 26 gauge needle has an O.D. (outer diameter) of 0.46mm and an I.D. of 0.26mm while the 26s gauge needle has an O.D. of 0.47mm and an I.D. of 0.13mm. The 26s has half the I.D. of the 26 gauge needle. Also, the difference in the wall thickness nearly doubles with 26s gauge having a thickness of 0.18mm while the 26 gauge is only 0.10mm.

Gauge	Nominal O.D.		Nominal I.D.		Wall Thickness		Volume μL/Inch
	Inch	mm*	Inch	mm*	Inch	mm*	
34	0.0060 - 0.0065	0.159	0.0015 - 0.0025	0.051	0.0020	0.051	0.052
33	0.0080 - 0.0085	0.210	0.0035 - 0.0050	0.108	0.0020	0.051	0.233
32	0.0090 - 0.0095	0.235	0.0035 - 0.0050	0.108	0.0025	0.064	0.233
31	0.0100 - 0.0105	0.261	0.0045 - 0.0060	0.133	0.0025	0.064	0.353
30	0.0120 - 0.0125	0.312	0.0055 - 0.0070	0.159	0.0030	0.076	0.504
29	0.0130 - 0.0135	0.337	0.0065 - 0.0080	0.184	0.0030	0.076	0.675
28	0.0140 - 0.0145	0.362	0.0065 - 0.0080	0.184	0.0035	0.089	0.675
27	0.0160 - 0.0165	0.413	0.0075 - 0.0090	0.210	0.0040	0.102	0.876
26s	0.0184 - 0.0189	0.474	0.0045 - 0.0055	0.127	0.0070	0.178	0.322
26	0.0180 - 0.0185	0.464	0.0095 - 0.0110	0.260	0.0040	0.102	1.349
25s	0.0200 - 0.0205	0.515	0.0055 - 0.0065	0.153	0.0070	0.178	0.464
25	0.0200 - 0.0205	0.515	0.0095 - 0.0110	0.260	0.0050	0.127	1.349
24	0.0220 - 0.0225	0.566	0.0115 - 0.0130	0.311	0.0050	0.127	1.930
23s	0.0250 - 0.0255	0.642	0.0040 - 0.0051	0.116	0.0105	0.267	0.268
23	0.0250 - 0.0255	0.642	0.0125 - 0.0140	0.337	0.0060	0.152	2.266
22s	0.0280 - 0.0285	0.718	0.0055 - 0.0077	0.168	0.0110	0.279	0.563
22	0.0280 - 0.0285	0.718	0.0155 - 0.0170	0.413	0.0060	0.152	3.403
21	0.0320 - 0.0325	0.819	0.0195 - 0.0210	0.514	0.0060	0.152	5.271
20	0.0355 - 0.0360	0.908	0.0230 - 0.0245	0.603	0.0060	0.152	7.255
19	0.0415 - 0.0425	1.067	0.0255 - 0.0285	0.686	0.0075	0.191	9.389
18	0.0495 - 0.0505	1.270	0.0315 - 0.0345	0.838	0.0085	0.216	14.011
17	0.0575 - 0.0585	1.473	0.0405 - 0.0435	1.067	0.0080	0.203	22.715
16	0.0645 - 0.0655	1.651	0.0455 - 0.0485	1.194	0.0090	0.229	28.444
15	0.0715 - 0.0725	1.829	0.0525 - 0.0555	1.372	0.0090	0.229	37.529
14	0.0820 - 0.0840	2.109	0.0610 - 0.0650	1.600	0.0100	0.254	51.076
13	0.0940 - 0.0960	2.413	0.0690 - 0.0730	1.804	0.0120	0.305	64.895
12	0.1080 - 0.110	2.769	0.0830 - 0.0870	2.159	0.0120	0.305	93.000
11	0.1190 - 0.1210	3.048	0.0920 - 0.0960	2.388	0.0130	0.330	113.728
10	0.1330 - 0.1350	3.404	0.1040 - 0.1080	2.693	0.0140	0.356	144.641

*mm are nominal



Terminations

N, Cemented Needle

For low volume syringes the needles are cemented into the glass syringe barrel at a point corresponding to the zero graduation mark. With this termination, dead volume is limited to the internal volume of the needle. Not autoclavable. Needle gauge is determined by the syringe volume and are not user-selectable.

SN, Special Cemented Needle

For low volume syringes the special needle terminations are the same as the Cemented Needle terminations except they allow for a variety of user-defined gauges, lengths and point styles to be attached.

LTN, Luer Tip Cemented Needle

For mid volume syringes the needles are cemented into the glass syringe barrel at a point corresponding to the zero graduation mark. With this termination, dead volume is limited to the internal volume of the needle. Not autoclavable. Needle gauge is determined by the syringe volume and are not user-selectable.

LTSN, Luer Tip Special Cemented Needle

For mid volume syringes the special needle terminations are the same as the Luer Tip Cemented Needle terminations except they allow for a variety of user-defined gauges, lengths and point styles to be attached.

LT, Luer Tip

The needles are removable and fit over a ground glass hub which is tapered in the shape of a male luer. The LT termination will accept most hypodermic needles but was designed specifically for use with Hamilton® Kel-F needles. This termination increases the dead volume in the syringe, which may not be appropriate for some applications. Autoclavable when disassembled.

RN, Removable Needle

The needles are removable and are a Hamilton®-specific design. The design allows the needles to seat precisely at the zero graduation mark of the syringe. Users can select the needle gauge, length and point style to optimize the syringe for custom applications. Additionally, this termination allows for a removable needle without increasing the dead volume of the syringe and is ideal when there is a risk of the needle clogging. Autoclavable when disassembled. Repeated autoclaving will shorten syringe life.

KH, Knurled Hub

The knurled hub is used exclusively on 7000 Series syringes. The hub handles up to 6000 psig maximum injection pressure. The needle is removable but with a limited number of gauges available because the plunger is fitted inside the needle. Autoclavable when disassembled. Repeated autoclaving will shorten syringe life.

FN, Fixed Needle

This termination is found on CTC chromatography syringes. The unique design features a direct attachment of the needle to the barrel and eliminates contact between the sample solvent and the adhesive reducing carry-over.

TLL, PTFE Luer Lock

This termination has a PTFE, male Luer taper with nickel-plated brass locking hub for use with Kel-F needles, metal hub needles and universal connectors. Also, the TLL is used with Hamilton® Diluters/Dispensers, OEM applications and manual operations. Autoclavable when disassembled, except on 25mL and greater syringes. Repeated autoclaving will shorten syringe life.

BFP, Bubble Free Prime

This syringe is used on syringe pumps like the Microlab 600 Diluters/Dispensers conical plunger tip to flush all liquid from this termination. The resulting syringe is quicker to prime and flush during washes or solvent changes.

SL, SampleLock™

The SampleLock™ incorporates an On/Off syringe valve with RN needle. This termination is used for headspace, environmental sample collection and storage, pre-pressurization of gaseous samples for GC analysis and sample spiking. Not autoclavable.

C, ChemSeal

The ChemSeal termination features a ¼-28 UNF male fitting. This syringe is used in low volume applications where system dead volume needs to be minimized. These syringes can be screwed directly into Hamilton® HV, HVP, HVX valves.

CA, Carbon Analyzer

This syringe is used for water analysis with total organic carbon (TOC) analyzers. The termination is designed to minimize the chance of organic carbon contamination from the needle connection.

DX, Diluter with Stop

This is a PTFE Luer Lock Male fitting with an M6 female side port. These syringes attach to instrumentation such as the Microlab 500 series diluters and dispensers.

DAD, Diluter AccuDil

These syringes have an axial fine thread M8 x 0.75 and an M6 female side port. These syringes attach to instrumentation such as the Microlab 1000 series diluters and dispensers.

AD, AccuDil

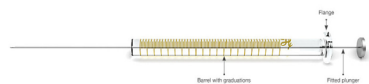
These syringes have an axial fine thread M8 x 0.75. These syringes attach to instrumentation such as the Microlab 1000 series Diluters/Dispensers.

Tracheal

This termination accepts 5/8" I.D. flexible tubing. These syringes are used for air sampling, preparing gas standards, calibrating reservoirs and pneumographs.

Plunger Types

Microliter™ Plunger



This is the standard, stainless steel plunger found in 2.5 – 500 μ L volume Hamilton® Microliter™ syringes. This plunger is hand fitted to the glass barrel to a tolerance of millionths of an inch to create a liquid tight seal ideal for dispensing solvents. When using samples without dissolved particles, the Microliter™ plunger has an almost unlimited lifespan because there are no wear surfaces. Also, these plungers are not interchangeable between syringes or replaceable due to the custom manufacturing process.

Gastight® Plungers



Hamilton® manufactures a variety of Gastight® plungers depending on the intended use of the syringe. All Gastight® plungers are made of stainless steel or aluminum and feature a polymer plunger tip, often PTFE. These plungers can be used for manual or automated applications with liquids or gases. The plungers are interchangeable and replaceable for 10 μ L – 100mL volume syringes.

Manual Plungers



Manual plungers come in two designs, one features a standard dome button and the other features a threaded plunger button. Syringes smaller than 1mL have a stainless steel plunger for syringes, as shown in the picture on the left. Manual plungers 1mL and larger are coated with PTFE and come with a threaded hole that allows them to be mounted into automated syringe pumps, which is demonstrated by the image on the right.

X-Style Plunger



This plunger is used for syringes 500 μ L and smaller intended for use in an automated syringe pump. A special plunger button protects the delicate plunger wire by stopping the pump at the zero line before damaging the tip. The stop also provides a 6-32 threaded hole that is used to mount the plunger into the syringe drive.

XP-Style Plunger



This plunger is used on XP-3000 modular digital syringe pumps and has a stop to limit damage to the plunger tip. This plunger is for half-height syringes with a 30mm stroke length.

XL-Style Plunger



This plunger is used on the XL-3000 modular digital syringe pumps and has a stop to limit damage to the plunger tip. This plunger is for full-height syringes with a 60mm stroke length.

XB-Style Plunger



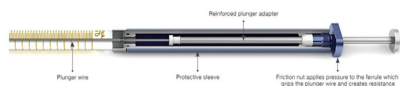
This plunger features a stop and a back bushing. The back bushing increases the plunger tip life, maintains proper plunger alignment and reduces the particles generated by plunger and glass contact.

Bubble Free Prime Plunger (BFP)



This plunger is used exclusively in syringes for Microlab 600 diluters and dispensers. The plunger features a conical plunger tip that extends through the threaded termination of the syringe into the Microlab 600 valve. This design helps remove air from the system and reduces the priming cycles required.

Reinforced Plunger



Small volume syringes require extremely small plunger wires. For uses that are prone to bending and breaking these small plungers, it is recommended using a reinforced plunger. These plungers are available in both Microliter™ and Gastight® versions in the 800 and 1800 syringe series respectively.

How to Select a GC Column for Your Application

Features to look for in a GC capillary column:

- Low column bleed
- Maximum temperatures
- Column inertness
- Resistance to chemical degradation, air and water
- Produces needed results

When selecting a GC capillary column for an application, four basic parameters need to be considered:

1. Stationary phase
2. Column internal diameter
3. Film thickness
4. Column length

Needle Point Guide for Hamilton® Syringes

Hamilton® syringes and needle products depend on the application. The correct point style varies depending on the intended application. Below are a few examples of common applications.

Manual GC Injections:

Historically a Point Style 2 was required to achieve efficient septum penetration with a minimized coring. Point Style AS will consistently extend septa life by as much as 10-fold.

Manual HPLC Injections:

Most manual injection valves are designed to be used with a 22 gauge Point Style 3 needle.

Drawing Sample:

Any point style will efficiently draw a sample, but when it is important to get the last drop out of a vial use Point Style 3 or AS to reach all the way to the bottom.

Animal Injections:

Animal injections require the sharpest needle possible. The recommended needle point style for this application is a Point Style 4 at a 12° bevel. For applications where injection site depth is critical or the target is small, a more vertical bevel as shown, such as a 30 or 45° is suggested.



Bevels for the point style 4 needle may vary from 12-60°.

Note: Syringes and needles manufactured and intended for scientific research and laboratory use only and are not intended for human in vivo use.

Point Style 2

Sharp, beveled, curved, non-coring needle point recommended for septum penetration.

Available gauges: 34-10.



Point Style 3

Blunt needle point for use with HPLC injection valves and for sample pipetting.

Available gauges: 34-10.



Point Style 3T

Blunt needle point for thin layer chromatography (TLC) applications. Needles are coated with PTFE ¾" up from the needle tip.

Available gauges: 26s, 26, 22s, 22.



Point Style 4

Standard 12° beveled needle point is recommended for life science applications.

Available gauges: 34-10. Special point styles such as 30°, 45° or any other angle are available upon request.



Point Style 5

Conical needle with side port for penetration of septa, thin-gauges vinyls and plastics without coring.

Available gauges: 26-10



Point Style AS

Special conical style needle point used on autosampler syringes the non-coring needle point is recommended for septum penetration.

Available Gauges: 26-10



Needle Point Guide for SGE Syringes

GC Autosampler:

The cone shape needle has been specifically developed to withstand the multi injection demands of autosamplers. They are also standard on microvolume and valve syringes.

Cone needle tip – (Style #1) “C”



Dual Gauge:

Dual gauge needles have a narrow gauge at the tip suitable for megabore on-column injection. The wider gauge for the remainder of the needle gives increased strength to the needle for autosampler use.



Manual GC:

A 20° bevel tip is the standard general purpose needle tip style supplied with Trajan® syringes. This style is designed for optimum septum penetration and prevention of septum coring.



Manual GC:

The same as the bevel tip, except a 0.7mm OD reinforcing sheath is silver soldered over the standard needle to within 10mm of the tip. The sheath provides exceptional strength to the needle.



HPLC:

HPLC valve injection syringes have 90° square tip needles with chamfered and polished edges to eliminate damage to the valve's rotor seal and stator face. This needle tip is also suitable for the pipetting of liquids.



Large Volume Injection:

Liquid samples are filled and dispensed through the side hole. The solid domed tip minimizes septum damage.



Biological:

This style needle is recommended for use with pre-drilled septa. The tip is rounded and polished to facilitate septum penetration.



Full line of
FOXBRAND®
reagent chemicals,
standards
and solutions
available.

Popular Chemicals

ACETONE
ACETONITRILE
ACETIC ACID GLACIAL
AMMONIUM HYDROXIDE
CYCLOHEXANE
CALCIUM CHLORIDE 2-HYDRATE
CHLOROFORM
METHYLENE CHLORIDE
DICHLOROMETHANE
ETHYL ETHER
HYDROCHLORIC ACID
HEPTANE
95% N-HEXANE
HYDROGEN PEROXIDE 31%
HYDROCHLORIC ACID 36.5-38%
HEXANES REAGENT
ISOPROPYL ALCOHOL 99%
ISOPROPYL ALCOHOL 70%
ISOPROPYL ALCOHOL
METHANOL
NITRIC ACID
POTASSIUM PERMANGANATE
PETROLEUM ETHER
POTASSIUM IODIDE
PENTANE
METHANOL PURGE & TRAP
POTASSIUM CHLORIDE
REAGENT ALCOHOL 200PROOF
SODIUM CHLORIDE
SODIUM HYDROXIDE
SODIUM PHOSPHATE DIABASIC ANYHDROUS
SODIUM BICARBONATE
SULFURIC ACID
STANNOUS CHLORIDE
SODIUM SULFATE
TOLUENE
2,2,4-TRIMETHYLPENTANE
TETRAHYDROFURAN



Available Grades

HPLC
LC-MS
GC
Intrapure
Ultrapure
Pesticide
ACS Reagent



EQUIPMENT

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With such a wide selection of products from multiple manufacturers, not all options are listed here. If you do not see a product which meets the specifications you need, please feel free to contact us.

AUTOCLAVES

BioClave™ 16 Research Autoclave (16L)

Designed specifically for non-medical
Fully automatic; just press start
Extremely compact
Built in water tank, does not require an external water supply
Chamber Volume: 16L
Max. Pressure: 29 PSI / 2bar
Chamber Dimensions: 9 x 13.75" (23 x 35cm)
Tray Dimensions: 6.5 x 10.75" (16.5 x 27cm)
Dimensions: 22 x 17.5 x 15.7" (56 x 44.5 x 40cm)
Weight: 89lbs (40kg)
Electrical: 120v or 230v 50-60hz 1600w
Warranty: 1 year



Part No.	Description	Qty	List
E400-304	BioClave 16 Research Autoclave (16L)	1/ea	\$5149.00

BioClave™ Mini Research Autoclave (8L)

Designed specifically for non-medical
Fully automatic; just press start
Extremely compact
Built in water tank, does not require an external water supply
Chamber Volume: 8L
Max. Pressure: 29 PSI / 2bar
Chamber Dimensions: 6.7 x 12.5" (17 x 31cm)
Tray Dimensions: 4.75 x 9.75" (12 x 24.8cm)
Dimensions: 20 x 13.5 x 12.9" (51 x 34 x 33cm)
Weight: 74lbs (33kg)
Electrical: 120V or 230V 50-60Hz 1600W
Warranty: 1 year



Part No.	Description	Qty	List
E400-306	BioClave Mini Research Autoclave (8L)	1/ea	\$3744.00

Automated "E" Electronic Autoclave

Every stage of the cycle including water-fill, heating, sterilization, exhaust and drying are microprocessor controller and completely automatic with these electronic models.

Model 2540EPK with 4 stainless steel

Trays, 10-in dia. chamber
Chamber Volume: 6 Gal (23L)
Chamber Dimensions: 10 x 18" (25.4 x 45.7cm)
Tray Dimensions: 6.7 x 16.3 x 0.8" (17 x 41.5 x 2cm)
Dimensions: 20 x 20 x 15" (50.8 x 50.8 x 38.1cm)
Weight: 106lbs (48kg)
Electrical: 220V



Part No.	Description	Qty	List
E700-018	Model 2540EPK	1/ea	\$12249.09

Model 3870EAP with 2 stainless steel trays, 15-in dia. chamber

Chamber Volume: 22gal (84L)
Chamber Dimensions: 15 x 27" (38.1 x 68.6cm)
Tray Dimensions: 14 x 26 x 1" (35 x 67 x 2.5cm)
Dimensions: 26 x 34 x 21" (66 x 86.4 x 53.3cm)
Weight: 225lbs (102kg)
Electrical: 220V



Part No.	Description	Qty	List
E700-030	Model 3870EAP	1/ea	\$30960.00



Autoclave Accessories

Kartell Autoclave Dry Heat Sterilization Tape

M460-001 Autoclave Tape is used with autoclave sterilization. Stripes turn dark brown after 20 minutes at 121C. The Tape indicates that autoclave temperature has been attained.

M460-002 Dry Heat Sterilization Tape is for use with Dry Heat Sterilization. The "V" stamp changes color from light green to brown, after 30 minutes at 155°C indicating that a Dry Heat Sterilization temperature has been attained. Color changes from white to brown for both products. These tapes conform with ISO 11140/2005.



Part No.	Description	Qty	List
M460-001	Autoclave Sterility Tape, 50 Meters	1/ea	\$36.88
M460-002	Dry Heat Sterility Tape, 50 Meters	1/ea	\$96.09

Biohazard Autoclave Gloves

Soft, pliant, all-cotton terry cloth gloves are superb for handling hot objects out of the autoclave or oven or for other heat protection in the lab, school or industry. Note: Gloves are not waterproof and should not be used to handle dry ice. CE marked.

Heat-resistant up to 232°C (450°F); replace hazardous asbestos gloves.

Gauntlets in two lengths provide wrist and forearm protection.

Bright orange color offers high visibility.

Machine wash, air dry or use the Lab-Aire® II Glove Holder to dry on any Lab-Aire® dryer.



Part No.	Gauntlet Length x Overall Length	Qty	List
M440-012	13cm (5") x 33cm (13")	1/ea	\$54.42
M440-013	28cm (11") x 47cm (18.5")	1/ea	\$74.08

ODO-Clave Autoclave Deodorizer

Heat-released deodorant pads neutralize autoclave odors with one of four pleasant scents.

Simply open foil pouch and place pad in bag prior to autoclaving.

Pads have a three year life span; will last longer if stored in a sealed container.

Also available in triple strength clove; releases three times the deodorant of the standard pads while costing less than two standard pads.



Part No.	Description	Qty	List
M440-000	Clove	100/pk	\$153.50
M440-001	Cherry	100/pk	\$153.50
M440-002	Pine	100/pk	\$153.50
M440-003	Lemon	100/pk	\$153.50
M440-004	3X Clove	100/pk	\$246.50

KC200 KINGUARD™ One-Step Sterilization Wrap

One-Step Sterilization Wrap is available in six grades from KC100 to KC600 to meet the full range of applications: the higher the number, the stronger the wrap. KC200 is the 2nd of 6 grades. It features two layers of wrap, thermally sealed along the sides. Delivers the protection of double-wrapping in a single step, in about half the time it takes to wrap or open packages using sequential double wrapping. Fast and easy way to ensure that instrument sterility is uncompromised. Microbial barrier protection with patented Powerguard technology. The choice of sterile processing teams around the world. Pre-Vacuum Steam and Ethylene Oxide (EO) Compatible. Flame Resistance meets NFPA Class 1.



Part No.	Description	Qty	List
A102-371	24 x 24", White	500/cs	\$367.07
A102-372	30 x 30", White	300/cs	\$328.70

PEEL PRO™ Self Seal Sterilization Pouches

Value Priced

- Dual internal and external steam and gas sterilization indicators – meets CDC Guidelines for the use of an internal indicator.
- Double wide seal for excellent puncture protection.
- Medical grade paper allows steam to penetrate and remains strong when wet.
- Multi layer see through aqua tint film.



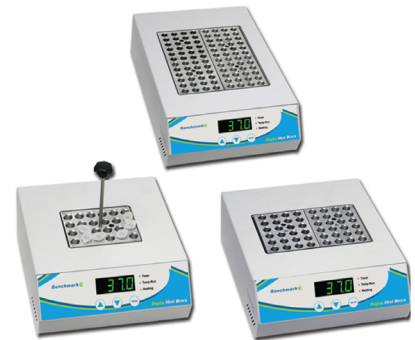
Part No.	Description	Qty	List
X100-000	3 1/2 x 10"	1200/cs	\$142.10
X100-001	5 1/4 x 11"	1200/cs	\$258.73

BATHS

Dry Baths

Digital Dry Baths

Digital accuracy and convenience
 Single, double & four block capacity
 Assorted blocks for a wide variety of tube sizes
 Custom blocks available upon request
 Temp range: Ambient +5 to 150°C
 Temp accuracy: ±0.2°C
 Temp increments: 0.1°C
 Temp Uniformity: ±0.2°C
 Timer: 1 to 999 minutes
 Dimensions: 8.7 x 10.3 x 3.2" (22 x 26 x 8cm)
 Block Dimensions: 3 x 3.75 x 2" (7.6 x 9.5 x 5cm)
 Electrical: 120V or 230V 50-60Hz 400W
 Warranty: 2 years



Part No.	Description	Qty	List
E400-261	Dual Position	1/ea	\$499.00
E400-263	Four Position	1/ea	\$839.00

Digital Dry Bath Accessories

Part No.	Description	Qty	List
E400-268	Block 24 x 1.5mL	1/ea	\$99.50
E400-269	Block 24 x 1.5 / 2.0mL	1/ea	\$99.50
E400-270	Block 24 x 0.5mL	1/ea	\$99.50
E400-272	Block 12 x 15mL (block height: 3.25")	1/ea	\$99.50
E400-275	Block 5 x 50mL (block height: 3.25")	1/ea	\$99.50
E400-273	Block 20 x 10mm (or 20 x 2.0mL)	1/ea	\$99.50
E400-274	Block 20 x 13mm (or 20 x 5/7mL blood tube)	1/ea	\$99.50
E400-276	Block 12 x 15-16mm (or 12 x 10mL blood tube)	1/ea	\$99.50
E400-267	Block 48 x 0.2mL Tubes or 6 PCR strips	1/ea	\$99.50
E400-279	Block 1 x 96-well PCR Plate (2 & 4 block models only)	1/ea	\$219.00
E400-278	Block 1 x 96-well PCR Plate (Single block model only)	1/ea	\$225.00
E400-280	Block 1 x Micro Plate (2 & 4 block models only)	1/ea	\$165.00
E400-265	Block Solid for Slides or Custom Machining	1/ea	\$99.50

Digital 2-Block Dry Bath Incubator

Temperatures set in 0.1°C increments up to 120°C
 PID Microprocessor Controlled temperature selection
 Large LED Display
 "Set it and forget it" convenience superb temperature stability
 Supplied with block extractor rod
 2 year warranty
 Block Capacity: 4
 Temperature Range: Ambient +5°C to 120°C
 Dimensions: 10.2 x 11.3 x 3.5" (26 x 28.6 x 8.9cm)
 Shipping Wht: 8lbs (3.6kg)
 Stability: ±0.2°C @ 37°C
 Electrical: 115V 50/60Hz 380W



Part No.	Description	Qty	List
I424-945	Digital 2-block Bath Incubator	1/ea	\$2044.29

Digital Dry Bath Accessories

Part No.	Description	Qty	List
I424-922	Acrylic Lid	1/ea	\$214.29
I424-925	1 Block Module (10mm tubes)	1/ea	\$173.20
I424-926	1 Block Module (13mm tubes)	1/ea	\$173.20
I424-927	1 Block Module (16mm tubes)	1/ea	\$173.20
I424-928	1 Block Module (20mm tubes)	1/ea	\$173.20
I424-929	1 Block Module (25mm tubes)	1/ea	\$173.20
I424-930	1 Block Module (Mixed Chamber tubes)	1/ea	\$173.20
I424-931	1 Block Module (1.5mL Microtubes)	1/ea	\$199.40
I424-932	1 Block Module (0.5mL Microtubes)	1/ea	\$204.43
I424-934	1 Block Module (Microplate)	1/ea	\$429.60
I424-933	1 Block Module (0.2mL Microtubes)	1/ea	\$239.60
I424-935	1 Block Module (96 Well 0.2mL)	1/ea	\$439.83
I424-936	1 Block Module (Dolphin Nose tube 1.5mL)	1/ea	\$279.34



Water Baths

General Purpose Water Bath Digital

Displays actual and set point temperature simultaneously
 Three push-button pre-sets for frequently used temperatures
 Integrated timer
 Hinged gable cover
 Calibration capability
 Reservoir sizes from 2 to 28 liters
 Reservoir made of 304 Stainless Steel
 Reservoir drain (10 liter and larger baths)
 Primary and automatic safety thermostats
 Display: 3.25" LCD
 Working Temperature Range: Ambient +5° to 100°C
 Temperature Stability: ±0.1°C
 Temperature Calibration Capability: 1-point
 Working Access (L x W x D): 24.1 x 43.2 x 15.2cm or 24.1 x 43.2 x 20.3cm
 Flammability Class (DIN 12876-1): I (NFL)



Part No.	Description (L x W x D)	Qty	List
E440-301	20L; 24.1 x 43.2 x 15.2cm	1/ea	\$778.33
E440-303	28L; 24.1 x 43.2 x 20.3cm	1/ea	\$819.17

Water Bath Accessories

Floating Ball Cover

Covers top of any open tank. Reduces fumes, splashing hazard and heat loss by 75% and evaporation by 87%. Usable to 110°C. 3/4" (19mm diameter). For use with E440-301 & E440-303.

Part No.	Description	Qty	List
E440-305	Floating Ball Cover	400/pk	\$136.67



Stainless Steel Test Tube Rack

For use with Stainless Steel Open Bath Systems and General Purpose Water Baths.

Part No.	Description	Qty	List
E440-306	10-13mm Holds 15 max	1/ea	\$130.83
E440-307	14-18mm Holds 15 max	1/ea	\$130.83
E440-308	10-13mm Holds 30 max	1/ea	\$152.50
E440-309	14-18mm Holds 30 max	1/ea	\$152.50



Reservoir Cleaner

Keeps reservoirs clean and odor-free. Concentrated: 8 oz (237mL) treats approximately 200 gallons (757 liters). For use with:

- Circulating Baths
- Refrigerated Circulating Baths
- Heating Circulating Baths
- Stainless Steel Open Bath Systems
- Polycarbonate Open Bath Systems
- Viscosity Bath
- Calibration Bath
- 75L Refrigerated Circulating Bath
- Coliform Bath
- General Purpose Water Baths
- LM Series Benchtop
- LS Series Benchtop
- MM Series Benchtop
- 6000 Series Chiller
- 3370 Liquid-to-Air Cooler
- 4100 Liquid-to-Liquid Cooler



Part No.	Description	Qty	List
E440-280	Polyclean CLARIFIER 8oz	1/ea	\$47.50
E440-321	Polyclean CLARIFIER 8oz	12/cs	\$390.83

Polytherm M170

Mid-range mineral oil provides cost-effective alternative to silicone oil. For use in stainless steel and polycarbonate tanks.

Temperature Range: 50° to 170°C (122° to 338°F)

For use with:

- Circulating Baths
- Refrigerated Circulating Baths
- Heating Circulating Baths
- Stainless Steel Open Bath Systems
- Polycarbonate Open Bath Systems
- Specialty Products
- Viscosity Bath
- Calibration Bath
- General Purpose Water Baths



Part No.	Description	Qty	List
E440-324	Polytherm M170	1 gal	\$181.67

Polyclear Mix 30

General purpose fluid for routine applications above 15°C; keeps reservoir clean.

Quantity: case = 5x1/2 gallon (1.9 L)

Temperature Range: 15° to 90°C (59° to 194°F)

For use with:

- Circulating Baths
- Heating Circulating Baths
- Stainless Steel Open Bath Systems
- Polycarbonate Open Bath Systems
- Specialty Products
- Viscosity Bath
- Calibration Bath
- 75L Refrigerated Circulating Bath
- Coliform Bath
- General Purpose Water Baths
- Chillers & Coolers
- Benchtop Chillers
- LM Series Benchtop
- LS Series Benchtop
- MM Series Benchtop
- 6000 Series Chiller
- Non Refrigerated Coolers
- 3370 Liquid-to-Air Cooler
- 4100 Liquid-to-Liquid Cooler



Part No.	Description	Qty	List
E440-325	Polyclear MIX 30, 1/2 gal	5/cs	\$101.67

SHEL LAB Circulating Water Baths

Excellent choice for research and quality control applications. They are highly accurate, easy-to-use, rugged and safe.

Microprocessor control

Easy-To-Clean Polymer-coated Tanks

Air Jacket heating eliminates Hot Spots

Recessed Heating Element Prevents Burnout

Thermometer Clip

24 month limited warranty *Excludes tank

Weight: 40 lbs

Temperature Control: Microprocessor

Temperature Uniformity: +/-0.2°C (at 37°C)

Temperature Range: Ambient +5°C to 80°C

Exterior Dimensions: 15 x 25.5 x 9" (38.1 x 64.8 x 22.9cm)

Interior Dimensions: 11.5 x 19.5 x 6.2" (29.2 x 49.5 x 15.8cm)

Capacity: 23L

Maximum Energy Consumption: 600W



Part No.	Description	Qty	List
W540-012	Circulating Water Bath	1/ea	\$3526.67



Water Bath Reciprocating / Shaking 17 Liter 115V

The bath may be used with or without oscillation. Shaking speed is variable from 20 to 200 oscillations per minute and the stroke length can be adjusted to three separate settings: 0.5, 1.0 or 1.5" to minimize the chance of accidental spillage. The unique basket support system is designed to eliminate tank wear, yet still provide full support and free action for a heavily loaded basket.

- Microprocessor control
- Independent oscillation and temperature controls
- Recessed heating element to prevent burnout
- Adjustable stroke length
- Thermometer clip

24 month limited warranty *excludes tank

- Weight: 57 lbs
- Oscillation Rate: 20-200 RPM
- Platform Dimensions: 12.5 x 11.7 x 7.5" (31.7 x 29.8 x 19cm)
- Agency Approval: CE
- Temperature Uniformity: +/-0.2°C (at 37°C)
- Temperature Range: Ambient +5°C to 80°C
- Exterior Dimensions: 25.5 x 15.5 x 12.5" (64.8 x 39.4 x 31.8cm)
- Interior Dimensions: 14.7 x 11.7 x 7.5" (37.4 x 29.8 x 19cm)
- Maximum Energy Consumption: 900/1080W



Part No.	Description	Qty	List
W540-014	Reciprocating Water Bath	1/ea	\$3653.33

SHEL LAB Digital Water Baths

SHEL LAB high-performance water baths are accurate, easy to use, safe and durable. The digital set / digital read P.I.D. temperature controller maximizes rapid heat-up without temperature overshoot. A microprocessor achieves precise temperature control regardless of how the unit is loaded. Calibration is performed directly from the front panel.

This durable and dependable water bath comes with a variety of safety and convenience features. It has a unique lid design that allows condensation to drain back into the tank without spilling onto the work area. We have also incorporated a gasket around the water bath tank to prevent water from dripping onto the controls. A warm air jacketed design radiates heat to the sides and bottom of the tank, eliminating hot spots. The unit has a non-contact, recessed heating element that will prevent burnouts if the water level is too low.

The water bath tank is constructed of stainless steel and does not have seams that could leak. The radius corners of the tank make cleaning easy. The unit's housings have a high quality textured powder coat finish. This electrostatically applied finish not only eliminates rust and chipping but is resistant to nicks, scratches and corrosives.

SHEL LAB Digital Water Baths are durable, dependable and are available in four sizes (2, 7, 15 and 23 L), with a variety of safety and convenience features. These features include:

- Easy-to-Clean Stainless Steel Tank
- Air Jacket Heating Eliminates Hot Spots
- Recessed Heating Element Prevents Burnout
- Thermometer Clip
- 24 Month Limited Warranty *excludes tank



Part No.	Description	Qty	List
W540-002	7L Digital Water Bath	1/ea	\$906.67

Water Bath Accessories

Lab Armor Beads

Recyclable lab armor beads eliminate water bath contamination, maintenance and harmful germicides. Dry metallic beads that replace water in baths give old equipment a cool, shiny, state-of-the-art upgrade.

Lab armor beads will help you save time and money. No more hassling with emptying, cleaning and refilling water baths. The bath stays on so there is no need to plan around warm-up times. Lab armor beads eliminate the worry about burnout because there is no water to evaporate.

- Cleaner working environment
- Greater organization capabilities as samples are held in place
- Environmentally friendly

- Diameter x Height: 5-8mm x 1-2mm
- Weight: 3.65 lbs per liter



Part No.	Description	Qty	List
1426-184	2L (1 x 2L)	1/ea	\$240.23
1426-186	8L (2 x 4L)	1/ea	\$689.92
1426-185	4L (1 x 4L)	1/ea	\$394.25
1426-183	0.75L	1/ea	\$92.40

BLENDERS

Variable-Speed Blender

This variable-speed blender provides smooth, adjustable speed control from 1,000 to 22,000rpm. Easily adjust at any speed for mixing, stirring, blending or homogenizing applications. Both models include a container, lid, SS blades and a 6-ft cord with U.S. standard plug. UL-listed.

Capacity: 1L
 Min RPM: 1000
 Max RPM: 22000
 Motor Type: Standard
 Power (VAC): 120
 Power (amps): 4
 Power (Hz): 60
 Container: Glass



Part No.	Description	Qty	List
E500-054	Variable Speed Blender	1/ea	\$1326.62

Two-Speed Blender

This Two-speed blender features push-button speed control for 18,000 and 22,000 rpm operation. Model includes a container, lid and stainless steel (SS) blades. The 120 VAC models are UL-listed and have a 6-ft cord with U.S. standard plug.

Capacity: 1L
 Min RPM: 18000
 Max RPM: 22000
 Motor Type: Standard
 Power(VAC): 120
 Power (Amps): 3.6
 Power (Hz): 50/60
 Container Material: Glass or Stainless Steel
 Color: White



Part No.	Description	Qty	List
E500-015	2-Speed Blender w/Glass Container	1/ea	\$612.16
E500-019	2-Speed Blender w/Stainless Steel Container	1/ea	\$710.10

****Replacement parts available along with other models and options. Contact us for more information.****

CENTRIFUGES

MyFuge™ 12 Mini Centrifuge w/ Combi-Rotor

COMBI-Rotor for tubes & strips
 Twice the capacity of most mini centrifuges
 Near silent operation
 Starts and stops with closing/opening of the lid
 Conserves valuable bench space
 Speed: 5,500rpm / 2,000xg
 Capacity: 12 x 1.5 / 2.0mL tubes
 32 x 0.2mL tubes
 4 x PCR Strips
 Dimensions: 5.75 x 8 x 4.25" (14.6 x 20.3 x 10.8cm)
 Weight: 2.2lbs / 1kg
 Electrical: 100-240V 50-60Hz 300W
 Warranty: 1 year



Part No.	Description	Qty	List
E400-320	MyFuge12 Mini Centrifuge w/ Combi-Rotor	1/ea	\$369.00

Centrifuge Accessories

Part No.	Description	Qty	List
E400-322	Replacement Adapter Pack 0.5mL	6/pk	\$19.00
E400-323	Replacement Adapter Pack 0.2mL	6/pk	\$19.00



MyFuge™ Mini Centrifuge

Click-N-Lok™ INSTANT rotor attachment
 Eight-position microtube rotor
 Storage compartment for PCR rotor & 0.5mL adapter
 Near silent operation
 Decelerates in just one second
 Four position PCR Strip rotor
 Other Color Lid options available
 Speed: 6,000 RPM / 2,000xg
 Capacity: 8 x 1.5/2.0mL tubes
 32 x 0.2mL tubes
 4 x PCR Strips
 Dimensions: 5.7 x 6.9 x 4.5" (14.5 x 17.8 x 11.4cm)
 Weight: 2.2lbs / 1kg
 Electrical: 100-240V, 50-60Hz, 250W
 Warranty: 1 year



Part No.	Description	Qty	List
E400-349	MyFuge Mini Centrifuge	1/ea	\$269.00

Centrifuge Accessories

Part No.	Description	Qty	List
E400-544	Replacement Adapter Pack 0.5mL	8/pk	\$24.00

Thermo Scientific™ Heraeus™ Megafuge™ 8 Small Benchtop Centrifuge

Featuring a smart, simple interface and exceptional capacity in a compact design. Secure, push-button Thermo Scientific™ Auto-Lock™ rotor exchange as little as three seconds for trouble-free installation/removal and clear chamber access for cleaning convenience, biocontainment sealing options, including certified† Thermo Scientific™ ClickSeal™ lids for glove-friendly, one-handed operation & optimizes bench space with maximized capacity:

Up to 8 x 50mL conical tubes, 24 x 5/7mL blood tubes, microplates and microtubes in swing-out configuration
 Fixed angle flexibility to spin 50mL conical tubes at over 12,000 x g or a wide range of microtubes at speeds up to 30,279 x g.

Capacity: 4 x 145mL (with TX-150 rotor), 6 x 50mL (with HIGHConic III rotor)
 Max. Speed: 4500rpm (TX-150 rotor); 16,000rpm (MicroClick 24 x 2 rotor)
 Max. RCF: 3260 x G (TX-150 rotor), 24,328 x G (MicroClick 24 x 2 rotor)



Part No.	Description	Qty	List
C600-516	Heraeus™ Megafuge™ 8 Small Benchtop Centrifuge	1/ea	\$3797.50

Centrifuge Accessories

TX-150 Swinging Bucker Rotor

Perform a wide range of clinical and research applications with the Thermo Scientific™ TX-150 Swinging Bucket Rotor. This rotor accommodates up to 24 x 5/7mL blood collection tubes or 8 x 50mL conical tubes at 4,500rpm/ 3,260 x g and provides additional flexibility for swing-out processing needs with available adapters. Rotor innovations—from Thermo Scientific™ Auto-Lock™ rotor exchange to Thermo Scientific™ ClickSeal™ biocontainment lids—shorten run set-up time while providing peace-of-mind that samples are secure.

For use with: Thermo Scientific™ Sorvall™ ST 8, Heraeus™ Megafuge™ 8 and SL 8 Centrifuges
 Capacity: 4 x 145mL
 Max. RCF: 3,260 x g
 Max. Speed: 4,500rpm
 Radius: 144mm
 K Factor: 12968
 Max. Tube Length: 100mm
 Max. Tube Diameter: 50mm
 Angle: 90°



Part No.	Description	Qty	List
C600-438	TX-150 Swinging Bucker Rotor	1/ea	\$1843.33

Centrifuge Accessories

8 x 50mL Individually Sealed Fixed Angle Rotor

Centrifuge eight conical tubes in individually sealed vessels using Thermo Scientific™ 8 x 50mL Sealed Fixed-Angle Rotor.

For use with: Thermo Scientific™ Sorvall™ Legend™ X 1, Sorvall ST 16, Heraeus™ Multifuge™ X 1, Heraeus™ Megafuge™ 16 and SL 16 Centrifuges

Capacity: 8 x 50mL
 Max. RCF: 6,755 x g
 Max. Speed: 6,500rpm
 Radius (Metric): 143mm
 Max. Tube Length: 116mm
 Max. Tube Diameter: 29.5mm
 Angle: 25°



Part No.	Description	Qty	List
C600-331	8 x 50mL Individually Sealed Fixed Angle Rotor	1/ea	\$3581.67

SEE A WIDE SELECTION OF CENTRIFUGE TUBES
 AND MICROCENTRIFUGE TUBES
 ON PAGES 307-309

CHILLERS

6500 Series ½ HP Chiller Positive Displacement Pump

Large, dual displays present temperature and pressure or flow rate simultaneously

Compact, portable design takes up less floor space

Cooling at ambient temperatures as high as 35°C

Positive displacement pump

Choice of compressor sizes

User-adjustable temperature, pressure and flow rate alarms

External temperature tracking and communications capability (optional)

Cool Command™, WhisperCool® (3/4 and 1 HP models)

Display: LED

Connectivity: Optional: RS232, RS485, remote on/off

Working Temp Range: -10 to 40°C

Temp Stability: ±0.1°C

Temp Calibration Capability: 1-Point

Pump Type: Positive Displacement or Turbine

Ext Temp Control Capability: Optional



Part No.	Description	Qty	List
E440-364	6500 Series ½ HP Chiller Positive Displacement Pump	1/ea	\$5068.33
E440-344	6500 Series ½ HP Chiller Powerful Turbine Pump	1/ea	\$5485.83

Chiller Accessories

Polycool HC-50

Excellent low-temperature performance without toxicity or risk to environment, equipment or personnel.

Provides low-temp properties of synthetic organic and silicone fluids with thermal properties of water-based glycols.

Temperature Range: -50° to 100°C (-58° to 148°F)

For use with:

- Circulating Baths
- Refrigerated Circulating Baths
- Specialty Products
- Calibration Bath
- 75L Refrigerated Circulating Bath
- Cryoprecipitate Bath
- Histology Products
- Chillers & Coolers
- Benchtop Chillers
- LM Series Benchtop
- LS Series Benchtop
- MM Series Benchtop
- 6000 Series Chiller
- Non Refrigerated Coolers
- 3370 Liquid-to-Air Cooler
- 4100 Liquid-to-Liquid Cooler



Part No.	Description	Qty	List
E440-416	Polycool HC-50, 1gal	1/ea	\$236.67



Polycool EG-25

A common circulator antifreeze fluid. Lowers the freezing point of water to allow circulation at below freezing temperatures. High toxicity. Recommend mixing with distilled water for broadest temperature range.

Temperature Range: -25° to 100°C (-13° to 212°F) when mixed 50% / 50% with distilled water

For use with:

- Circulating Baths
- Refrigerated Circulating Baths
- Specialty Products
- Calibration Bath
- 75L Refrigerated Circulating Bath
- Chillers & Coolers
- Benchtop Chillers
- LM Series Benchtop
- LS Series Benchtop
- MM Series Benchtop
- 6000 Series Chiller
- Non Refrigerated Coolers
- 3370 Liquid-to-Air Cooler
- 4100 Liquid-to-Liquid Cooler



Part No.	Description	Qty	List
E440-417	Polycool EG-25, 1gal	1/ea	\$86.67

External Pt100 Probe for Chillers

Cable Lengths: 10' also available in 25' and 50'

For use with:

- Chillers & Coolers
- 6000 Series Chiller
- Non Refrigerated Coolers
- 4100 Liquid-to-Liquid Cooler

Part No.	Description	Qty	List
E440-421	External Pt100 Probe for Chillers	1/ea	\$255.00

****Filter housing and replacement filters also available. Contact us for more information.****

DESICCATORS

Large Desiccator

Durable, hand crafted construction. Fabricated from stainless steel and glass.

Superior seal integrity

Rigid door, full length door hinges

One piece neoprene door gasket

Shelves are adjustable in half-inch increments

2 year warranty

Storing reagents, IR cells or soil samples.

Drying biological specimens

Storage sludge samples

Overall Dimensions (W x L x H): 41.9 x 58.4 x 57.2cm (16 1/2 x 23 x 22 1/4")

Chamber Dimensions (W x L x H): 40 x 50.2 x 55.2cm (15 3/4 x 19 3/4 x 21 3/4")

Shelf Info: 48.3 x 34.3cm (19 x 13.5")

Shipping Weight: 28.12kg (62 lbs)



Part No.	Description	Qty	List
I424-969	Large Desiccator	1/ea	\$4892.31

Small Desiccator

Durable, hand crafted construction. Fabricated from stainless steel and glass.

Superior seal integrity

Rigid door, full length door hinges

One piece neoprene door gasket

Shelves are adjustable in half-inch increments

2 year warranty

Storing reagents, IR cells or soil samples.

Drying biological specimens

Storage sludge samples

Overall Dimensions (W x L x H): 31.8 x 31.1 x 31.1cm (12-1/2 x 12-1/4 x 12-1/2")

Chamber Dimensions (W x L x H): 29.2 x 25.4 x 30.5cm (11-1/2 x 10 x 12")

Shelf Info: 24.8 x 20.3cm (9.75 x 8")

Shipping Weight: 9.98 kg (22 lbs)



Part No.	Description	Qty	List
I424-963	Small Desiccator	1/ea	\$2050.14

“SPACE SAVER” Polycarbonate Vacuum Desiccator with White Polypropylene Bottom

De-gas liquids quickly and easily in the laboratory or classroom with this small plastic vacuum desiccator. These strong, shatterproof units provide dry storage and protection for sensitive products. Lighter and less costly than similarly sized glass models; does not chip like glass. Holds a full vacuum (29.9” Hg) at room temperature for 24 hours.

Tapered polypropylene stopcock with PTFE plug (M441-429) accepts tubing with ¼ to ¾” I.D. and allows a controlled entrance of air preventing unnecessary turbulence. Neoprene O-ring assures a tight seal down to 0°C without the need for grease (ring will not be harmed if grease is used). ‘Flat Dome’, clear polycarbonate top with large ribbed knob maximizes interior clearances and provides an average of 13% greater interior volume over standard hemispherical domes. All models include a 0.32cm (1/8”) thick perforated plate; disposable or reusable desiccant can be placed on or under this plate. White polypropylene bottom models can support incandescent crucibles on Minerit HD High Heat Ceramic Desiccator Plates. Clear polycarbonate bottom models offer increased viewing visibility from more angles.

Volume: 0.09 cuft.
 Flange O.D.: 17.1cm (6-3/4”)
 Inside Diameter: 14.9cm (5-7/8”)
 Plate Diameter: 14cm no. 3
 Overall Height: 20.6cm (8-1/8”)
 Clearance above plate: 12.1cm (4-3/4”)



Part No.	Description	Qty	List
M441-414	“SPACE SAVER” Polycarbonate Vacuum Desiccator	1/ea	\$114.30

Acrylic Desiccator Cabinet

Desiccator cabinets for dry, dust-free storage at temperatures up to 120°F for use in incubators, freezers, refrigerators or at room temperature. Made in the USA, these desiccator cabinets have air-tight doors that need no lubrication. Sliding perforated shelves for easy access; transparent acrylic walls, for see-thru storage. A third bottom shelf accommodates desiccants.

Size: Small
 Dimensions: 10 L x 7 W x 8-1/2” H
 Temperature: Up to 120°F
 Humidity Range: 20 to 95% w/ ±5% accuracy
 Display: LCD
 Includes: 2 AAA Batteries & Lock



Part No.	Description	Qty	List
M460-428	Acrylic Desiccator Cabinet	1/ea	\$785.47

Desiccator Accessories

Regular Drierite Desiccant

An anhydrous calcium sulfate. It is of neutral pH, constant in volume, chemically inert except toward water, insoluble in organic liquids and refrigerants, non-disintegrating, non-wetting, non-toxic, non-corrosive, non-channeling, generally recognized as safe (GRAS) by the FDA, not regulated by OSHA, economical to use and can be regenerated repeatedly for reuse.

Mesh Size: 8
 Container Size: 5 lbs
 Indicating: No



Part No.	Description	Qty	List
D200-010	5 lbs	1/ea	\$39.13

Indicating Drierite Desiccant

It is impregnated with cobalt chloride. Indicating DRIERITE is blue when dry and changes to pink upon absorption of moisture. The color change is pronounced and clearly visible. This makes Indicating DRIERITE valuable when it is necessary to know with certainty that dryness is being maintained and to signal when the drying agent should be replaced. It has the same efficiency as Regular DRIERITE and somewhat greater capacity due to the desiccating effect of the cobalt chloride.* It can be regenerated repeatedly for reuse. * It should be noted that Indicating DRIERITE should not be used for the drying of ammonia, NH₃, since ammonia reacts with inorganic chlorides.

Mesh Size: 8
 Container Size: 1 lb



Part No.	Description	Qty	List
D200-028	Mesh Size 8; 1 lb	1/ea	\$20.75
D200-008	Mesh Size 8; 5 lbs	1/ea	\$92.49
D200-031	Mesh Size 10-20; 5 lbs	1/ea	\$93.13



DISTILLATION

Six-Place Kjeldahl Distillation Apparatus

Distillation manifold with seamless stainless steel tubing. No fittings or gaskets are required eliminating a potential leak source. Counterflow heat exchanger controls back pressure and maximizes the rate of distillation for uniformity of results. One-piece borosilicate glass connecting bulbs separate liquid from vapors prior to the vapors entering the condenser and effectively traps caustic mist that may carry over to the recovery solution. One-piece borosilicate glass delivery tubes with long necks, round bottoms and thick walls to help eliminate pressure fluctuations in the distillation phase. Electric heaters with curved ceramic bases to cradle 500 or 800mL Kjeldahl digestion flasks. Individual infinite-control knobs for electric heaters with variable input from 20-100% capacity. Full one year warranty.



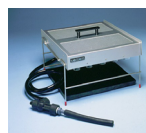
Weight: 217 lbs (98kg)
 Dimensions (W x D x H): 30.88 x 15 x 41" (78 x 38 x 104cm)
 Electrical: 230V, three phase, 50/60Hz 9 amps

Part No.	Description	Qty	List
E510-050	Six-Place Kjeldahl Distillation Apparatus	1/ea	\$14671.77

Kjeldahl Distillation Accessories

Fume Removal System

Applicable products: Rapid Digestors



Part No.	Description (W x D x H)	Qty	List
E510-094	4-Place; 4.75 x 5.38 x 4"	1/ea	\$1479.03
E510-093	25-Place; 16.5 x 18.5 x 4"	1/ea	\$5554.84

****Other Options, Parts & Replacement Glassware is also available****

FREEZERS

General Purpose Laboratory Freezer Upright Auto Defrost

Auto defrost, forced air, adjustable temperature control
 5 fixed position wire shelves (top shelf adjustable)
 1 adjustable wire shelf
 1 full access sliding storage basket
 Warranties: 12 months parts and labor (US and Canada)
 Interior Dimensions (H x W x D): 57-1/2 x 27-1/2 x 23-1/2" (146 x 69 x 59cm)
 Overall Dimensions (H x W x D): 72-3/8 x 34 x 31-3/4" (184 x 86 x 81cm)
 Gross Cu.ft.: 20.3 (575L)
 Number of Shelves: 4
 Refrigerant: R-134a
 Total Amp draw: 5.0
 Operating Temp: -10 to -20°C
 Voltage: 115V, 1PH, 60Hz



Part No.	Description	Qty	List
R220-003	Auto Defrost	1/ea	\$3488.46

General Purpose Laboratory Freezer Upright Manual Defrost

Manual defrost, Adjustable temperature control
 Interior light
 Warranties: 12 months parts and labor (US and Canada)
 Interior Dimensions (H x W x D): 57 x 27 x 24" (144 x 69 x 60cm)
 Overall Dimensions (H x W x D): 72-1/2 x 34 x 33" (184 x 86 x 84cm)
 Gross Cu.ft.: 20.6 (583L)
 Refrigerant: R-134a
 Total Amp draw: 5.0
 Operating Temp: -10 to -20°C
 Voltage: 115V, 1PH, 60Hz



Part No.	Description	Qty	List
R220-004	Manual Defrost	1/ea	\$3148.08

Revco™ CxF Series - 86°C Ultra-Low Temperature Chest Freezer



Reliably store samples with versatile Thermo Scientific™ Revco™ CxF Series -86°C Ultra-Low Temperature Chest Freezers.

This unit delivers all the sample protection features of our ExF and DxF freezers in four convenient sizes and available with a full range of racking solutions.

Backup Systems:	Optional CO ₂ or LN ₂	Insulation:	Polyurethane Foam
Access Security:	key lock	Model:	Revco
Chart Recorder:	Optional 7-day chart recorder	Plug Type:	NEMA 5-20
Certifications/Compliance:	cULus, CE listed	Shipping Weight:	716 lb.
Data Outputs:	RS-485, 4-20mA, dry contacts-standard	Temp Range:	-50°C to -86°C
Control:	Push Button LED	Type:	Ultra Low Freezer, Chest
Capacity:	12.7 cu. ft. (359.6L); 115V/60Hz; 16A	Voltage:	115V
Amperage:	16A	Electrical Requirements:	115V 60Hz
Capacity:	12.7 cu. ft., 359.6L	Interior:	Stainless-steel
Capacity (English):	12.7 cu. ft.	Operating Modes:	Standard Operation
Capacity (Metric):	359.6L	Regulatory Approvals:	UL
Dimensions		Smart View Compatibility:	SmartView Compatible
Ext.(L x W x H):	33.4 x 72 x 40.5" (84.8 x 182.9 x 102.9cm)	Setpoint Security:	Single ID
Int.(D x W x H):	18.5 x 42.5 x 28" (47 x 108 x 71.1cm)	Unit Weight:	666 lb.
Hertz:	60Hz	Voltage Compensation:	Buck/Boost
Holds:	252 boxes	Water Cooled:	Optional
		Warranty varies by country, please contact us for details.	

<u>Part No.</u>	<u>Description</u>	<u>Qty</u>	<u>List</u>
C601-584	Ultra Low Chest	1/ea	\$19465.00

Revco™ High-Performance Lab Freezers



Simplify operation and increase accuracy with the microprocessor control of Thermo Scientific™ Revco™ High-Performance Lab Freezers. Our Revco™ -30°C and -20°C high-performance freezers are designed for medical and scientific applications such as storage of reagents, pharmaceuticals, biologicals or other commonly used laboratory materials. Models offer cabinet sizes to fit a variety of space needs and storage volume requirements. Certifications/Compliance: UL and CUL listed. CE marked.

Amperage:	16A	Hertz:	60Hz
Capacity:	29.2 cu. ft., 826L	Plug Type:	5-20P
Breaker:	20A	Shipping Weight:	445 lb.
Cabinet Type:	Upright cabinet	Shelves:	4
Capacity (English):	29.2 cu. ft.	Refrigerant:	CFC-free
Capacity (Metric):	826L	Shipping Weight (Metric):	202kg
Defrost:	Automatic	Temp Control:	Microprocessor
Dimensions		Temp Range:	-30°C
Ext. (L x W x H):	37.2 x 34 x 79.2" (94.5 x 86.4 x 201.2cm)	Type:	High-Performance Freezer
Int. (D x W x H):	29 x 30 x 58" (73.7 x 76.2 x 147.3cm)	Voltage:	115V
		Doors:	Single, Solid
		Electrical Requirements:	115V 60Hz

<u>Part No.</u>	<u>Description</u>	<u>Qty</u>	<u>List</u>
C601-605	High Performance	1/ea	\$12390.96

.....
Replacement Parts & Accessories are Available!



FURNACES

Lindberg/Blue M™ Moldatherm™ Box Furnaces

Minimize outer surface temperatures while maintaining uniform heat distribution within the chamber. Thermo Scientific™ Lindberg/Blue M™ Moldatherm™ Box Furnaces include unique insulation and heating element composites and are available in several popular chamber sizes to meet the most demanding laboratory applications. Advanced engineering and specialized construction techniques include variable density insulation, double shell cabinets, long-life heating elements and horizontal side swing doors.



Microprocessor-Based Control

- Selectable self-tuning feature sets best control parameters for the thermal process
- PID control (proportional, integral, derivative) prevents overshoot
- Main power ON/OFF switch on control panel
- Controlled heat-up rate eliminates thermal shock to materials
- Quick heat-up and cool-down rates
- Adjustable high-limit overtemperature protection
- Simultaneous LED display of actual temperature vs. setpoint
- Can be configured to display temperature in either °C or °F

Construction

- Unique double wall minimizes exterior surface temperatures for operator safety and energy efficiency
- Side-hinge door for convenient operation and full chamber access
- Long-life Type K thermocouple
- Air vent (1" dia., top) and air inlet (0.375" dia., rear) for inert atmosphere exchange; will experience some leakage at door
- Removable and replaceable Moldatherm hearth plate supports load and prevents damage due to spillage
- Energy-efficient Moldatherm insulation with embedded heating elements
- Safety door switch to interrupt power to heating element when door is opened; protects heating element and minimizes exposure to end-user

Digital, Single-Setpoint Controller

- Single segment, single setpoint, one ramp to setpoint

Digital Single-Program, Multiple-Segment Programmable Controller

- Single program with multiple segments for ramp (up and down) and dwell (timed hold) temperature control

Ordering Information:

Optional RS485 Digital Communications Port allows controller to be connected to a PC for remote monitoring and control of the furnace. Up to 30 units can be connected to one PC.

Includes

10' power cord except 1.5 cu. ft. models which require customer-supplied power cord or hardwiring.

Capacity:	0.19 cu.ft. (5.3L)
Certifications/Compliance:	UL
Dim. (D x W x H) Int.:	9 x 6 x 6" (22.9 x 15.2 x 15.2cm)
Dim. (L x W x H) Ext.:	21 x 17 x 21.5" (53.3 x 43.1 x 54.6cm)
Hertz:	50/60Hz
Power Consumption:	1800W
Shipping Weight:	110 lb. (50kg)
Temperature Control:	Multiple Seg/1 Prog/OTP
Temperature Range:	100° to 1100°C
Type:	Multisegment OTP Single Program
Voltage:	208/240V
Electrical Requirements:	208/240V 50/60Hz

Capacity:	1.99L
Certifications/Compliance:	UL
Dim. (D x W x H) Int.:	4 x 8 x 4" (10.2 x 20.3 x 10.2cm)
Dim. (L x W x H) Ext.:	20 x 15 x 17.5" (50.8 x 38.1 x 44.4cm)
Hertz:	50/60Hz
Power Consumption:	1800W
Shipping Weight:	55 lb. (25kg)
Temp Control:	Digital/OTP
Temp Range:	100° to 1100°C
Type:	Digital OTP
Voltage:	208/240V
Electrical Requirements:	208/240V 50/60Hz

Part No.	Description	Qty	List
C602-191....5.3L;	Multiple Seg/1 Prog/OTP.....	1/ea	.....\$5033.63

Part No.	Description	Qty	List
C602-177.....1.99L;	Digital/OTP.....	1/ea	.....\$3783.29

Other Models, Variations & Replacement Parts
are Available!

Thermo Scientific™ Thermolyne™ Benchtop Muffle Furnace

Ideal for general laboratory use, including gravimetric analysis, sintering, quantitative analysis and heat treating. Reaches a 1200°C maximum temperature. Built-in vent port removes contaminants and moisture to extend the life of the heating element and furnace. For added protection, the door safety switch stops power to heating elements when door opens. Thermocouple break protection cuts power to heating elements, preventing a thermocouple failure runaway condition. Two open coil heating elements on chamber sides assure fast heat up with minimum temperature gradient.

Thermal-efficient ceramic insulation surrounds chamber for maximum energy efficiency 0.312" dia. port for monitoring chamber temperatures with independent measuring device at rear of chamber.

Capacity:	5.8L
Temp Range:	100° to 1200°C (212° to 2192°F)
Interior D x W x H:	25 x 18 x 13cm (10 x 7 x 5")
Exterior L x W x H:	50 x 34 x 19cm (19.5 x 13.3 x 19")
Control:	D1
Electrical:	120V 50/60Hz 1800w 15.0A



Part No.	Description	Qty	List
C602-275	Thermo Muffle	1/ea	\$8227.92

HEATING MANTLES

Series TM Package Mantles

Control and solid state proportional voltage which provides precise manual control of the output range. Glas-Col offers its standard Series TM mantle for round-bottom flasks with the PowrTrol power control as a special, economical package. The PowrTrol is a solid-state, proportional-voltage control that provides precise manual control of the output range, which is adjustable from 5-100%. The standard Series TM mantle is for round-bottom flasks from 50mL to 5,000mL in both 115V and 230V where available. The mantles are designed to withstand an internal operating temperature of 450°C and 115 volt are CSA certified.

Maximum Operating Temp:	450°C	Voltage:	115
Capacity (mL):	500	Watts:	270



Part No.	Description	Qty	List
E502-993	Series TM Package Mantles	1/ea	\$659.40

StirMantle

The StirMantle adds electromagnetic stirring capability (50-750rpm) to the Series TM heating mantle for spherical flasks. Heating and stirring are independent; choose either or both. Speed is easily adjusted by a single dial on the StirControl II (ordered separately). The StirControl II creates and synchronizes the magnetic field. When restarting, (as for removal and reinsertion of the flask). The exclusive "Synchrostart" feature maintains linkage between the field and the bar. The StirControl II connects to the StirMantle by cord, so it may be placed outside corrosive hood atmospheres and is easily accessible.

Capacity:	3,000mL		
Voltage:	115V	Watts:	500W



Part No.	Description	Qty	List
E502-846	StirMantle	1/ea	\$1972.60

Beaker Fabric Mantles

This mantle can accommodate and efficiently heat all types of straight walled metal beakers by preventing contact of heating elements and vessel walls with inner layers of glass fabric. Also available for glass beakers with resilient and pliable interior glass fabric which cradles fragile beakers. Heat is concentrated at the bottom of these mantles so even small liquid volumes may be heated.

Certification: All 115 volt units are CSA certified
 Electrical: Separable 4 ft., 2-wire cord and locking connector
 WARNING: Chemical spillage, overheating, overloading and general misuse will greatly reduce service life!
 HEATING MANTLES MUST BE OPERATED THROUGH A POWER CONTROL



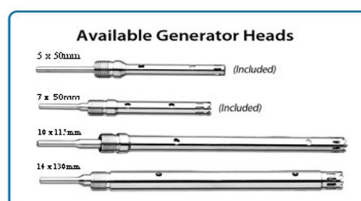
Part No.	Capacity / Watts	Qty	List
E502-464	150mL / 100	1/ea	\$318.50
E502-467	250mL / 140	1/ea	\$326.30
E502-470	400mL / 240	1/ea	\$339.30
E502-473	600mL / 325	1/ea	\$382.20
E502-476	800mL / 350	1/ea	\$421.20
E502-479	1,000mL / 430	1/ea	\$448.50
E502-491	1,200mL / 430	1/ea	\$422.50
E502-494	2,000mL / 550	1/ea	\$452.40
E502-497	3,300mL / 630	1/ea	\$486.20
E502-485	3,000mL / 630	1/ea	\$486.20
E502-488	4,000mL / 710	1/ea	\$517.40



HOMOGENIZERS

Handheld Homogenizer w/Probes

Small & powerful hand-held homogenizer
 Homogenize most samples in under 30 seconds
 For volumes from 100µl to 250mL
 Supplied with both 5mm and 7mm generator probes
 Capacity: 0.1 to 250mL
 Noise Level: <70 db
 Speed range: 8500 to 30,000rpm
 Operating Temp. Range: +4° to 65°C
 Dimensions: 1.89 x 2.3 x 9" (4.5 x 5.8 x 22.5cm)
 Weight: 1.35 lbs (0.62kg)
 Electrical: 115V, 60Hz
 Warranty: Mfg 2 years



Part No.	Description	Qty	List
E400-207	Handheld Homogenizer w/Probes	1/ea	\$999.00
E400-213	Stand for D1000	1/ea	\$395.00
Generator Probes			
E400-209	10 x 115mm Saw Tooth for 15 and 50mL tubes	1/ea	\$295.00
E400-210	14 x 130mm Saw Tooth for 50 to 250mL tubes	1/ea	\$885.00
E400-211	5 x 50mm Flat Bottom for Microtubes (1 included)	5/pk	\$495.00
E400-212	7 x 50mm SawTooth for Microtubes (1 included)	5/pk	\$525.00

Beadblaster™ Microtube Homogenizer

Fast, efficient homogenization in about 35 seconds
 For all sample types, from soft tissue to bone
 Mix up to 24 tubes simultaneously
 Sealed 2.0mL tubes – eliminates cross contamination
 Speed Range: 4.0 to 7.0m/s (0.05m/s increments)
 Capacity: 24 x 2.0mL
 Cycle Time: 1 to 90 sec. (up to 90 secs)
 Pause between Cycles: 0 to 2 min (1sec increments)
 Max Cycles per program: 10
 Program Memory: Up to 50
 Accel. / Decel Time: < 2 sec. / < 2 sec.
 Noise Level: <68 db
 Dimensions: 11 x 14.2 x 15.2" (28 x 36 x 38.5cm)
 Weight: 55 lbs / 25kg
 Warranty: 2 years
 Electrical: 00 to 240v 50-60Hz



Part No.	Description	Qty	List
E400-188	Beadblaster Microtube	1/ea	\$7995.00

Prefilled Tubes & Bulk Beads

Bead kits come in a variety of materials and sizes for processing a wide range of samples. Prefilled for convenience, the unskirted 2.0mL tube kits will fit in all popular bead homogenizers including Benchmark Scientific's BeadBug™ and BeadBlaster™ 24. Tested to ensure they are RNase, DNase, protease and nucleic acid free, the TriplePure Zirconium Bead Kits are supplied in five bead sizes to homogenize everything from bacteria to large tissues. Acid washed silica and stainless steel bead kits as well as specialty bead mixes and bulk beads are also available.

Bead Material	Bead Diameter	Prefilled 2.0mL tubes	Bulk cat. No./bottle	List
TriplePure Zirconium	0.1mm	E400-196	E400-506/250g	CALL
TriplePure Zirconium	0.5mm	E400-197	E400-507/250g	CALL
TriplePure Zirconium	1.0mm	E400-198	E400-508/250g	CALL
TriplePure Zirconium	1.5mm	E400-199	E400-509/250g	CALL
TriplePure Zirconium	30.0mm	E400-200	E400-510/250g	CALL
TriplePure Zirconium	0.1, 0.5, 1.0, 1.5, 3.0mm	E400-201*	NA	CALL
Silica	0.1mm	E400-193	E400-503/200g	CALL
Silica	0.5mm	E400-194	E400-504/200g	CALL
Silica	1.0mm	E400-195	E400-505/200g	CALL
Stainless Steel (Acid-Washed)	2.8mm	E400-202	E400-511 (1000 beads)	CALL
Stainless Steel (Acid-Washed)	2.8mm in 5mL tubes	E400-502	N/A	CALL



*Starter kit - contains 10 of each size

HOTPLATES & STIRRERS

FOXBRAND® Hotplate Magnetic Stirrer

An exceptionally durable, chemical resistant white ceramic work surface. Their space-efficient design (8 x 9" footprint), makes them ideal for use on crowded bench tops and inside of bio-hoods. Advanced microprocessor controls with convenient turn knobs allow quick, precise adjustment and maintenance of speed and temperature. Safety indicator LED's on the front panel indicate when the heating and/or stirring functions have been activated. With a square 7.5" work surface, all three models are compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles and other vessels. The hotplate/magnetic stirrer model (H200-001) comes complete with a support rod for mounting thermometers and temperature probes.

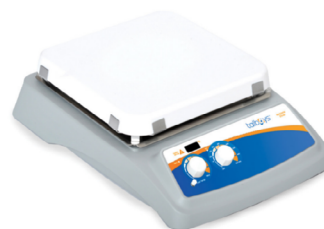
Temperature Range: 80°C to 380°C
 Speed Range: 60 to 1500rpm
 Platform: 7.5 x 7.5" (19 x 19cm)
 Control: Quick Adjustment Knob
 Dimensions: 8 x 9 x 4.5"
 Electrical: 120V, 60Hz



Part No.	Description	Qty	List
H200-001	Hotplate Magnetic Stirrer	1/ea	\$382.08
H200-002	Hotplate Only	1/ea	\$250.70
H200-003	Stirrer Only	1/ea	\$250.70

10 x 10 Advanced Ceramic Top Hotplate-Stirrer, 120V

Excellent temperature uniformity
 Microprocessor controlled
 Cool touch, chemical resistant housing
 LED display for temperature
 5 year industry leading warranty
 Top Plate Dimensions: 10 x 10" (25.4 x 25.4cm) or 7 x 7" (17.8 x 17.8cm)
 Temp Range: Ambient +5 to 500°C
 Speed Range: 60 to 1600rpm
 Voltage: 120V
 Amps: 12.9 or 8.3



Part No.	Description	Qty	List
S720-463	10 x 10", 12.9 Amps	1/ea	\$763.72
S720-514	7 x 7", 8.3 Amps	1/ea	\$618.13

Digital Hotplate Magnetic Stirrer

Large, backlit LCD Display
 Ceramic work surface 6.5 x 6.5"
 Safety LED indicates hot surface
 Control actual temperature (with optional probe)
 Temp Range: Ambient +58 to 380°C
 Speed Range: 200 to 1500rpm
 Platform Dimensions: 6.5 x 6.5" (16.6 x 16.5cm)
 Operating Temp: +4 to 65°C
 Dimensions: 7 x 10.5 x 4" (18 x 26 x 10.1cm)
 Weight: 5lbs (2.2kg)
 Electrical: 120V 50-60Hz 500W
 Warranty: 2yrs



Part No.	Description	Qty	List
E400-288	Digital Hotplate Magnetic Stirrer	1/ea	\$349.00

Hotplate Accessories

Part No.	Description	Qty	List
E400-295	Optional Temperature Probe	1/ea	\$99.00
E400-294	Optional Support Rod	1/ea	\$39.90



7 x 7" Professional Ceramic Top Stirrer with NIST Traceable Certificate, 120V

Talboys Professional hotplates, stirrers and hotplate-stirrers are designed for applications that require exceptional accuracy, stability and repeatability. Exclusive safety features help protect operator and sample. Enhanced microprocessor control offers an external RTD probe option that delivers superior temperature control of the sample. Stirring function, with continuous duty motor and powerful magnet, maintains set speed even under changing load or viscosity. Separate LED displays for temperature, speed and time allow user to view all settings at once.

Stirrer is supplied with a 1.5" (3.8cm) PTFE coated stir bar. Unit includes a 92" (234cm) detachable, 3-wire cord and plug. NIST Traceable Calibration Certificate provided by Troemner's ISO/IEC 17025 accredited laboratory. Multiple data points within the speed range and time functions, are reported on the certificate with the associated uncertainties.

- Excellent temperature uniformity
- LED display for temperature, speed and time
- Cool touch, chemical resistant housing
- Includes RTD temperature probe kit

Control Type: Digital
 Frequency: 50 / 60 Hz
 Voltage / Amps / Watts: 120 / 0.4 / 50
 Top Plate Material: Ceramic
 Top Plate Dimensions: 7 x 7" (17.8 x 17.8cm)
 Speed Range: 60 to 1600 rpm
 Speed Stability: ± 2%
 Timer: 1 second to 160 hours
 Maximum Capacity H2O: 2500mL
 Dimensions: 14.8 x 9.9 x 4.3" (37.6 x 25 x 10.9cm)
 Operating Conditions: Units can be run in conditions from 5 to 40°C (41 to 104°F), 20% to 80% relative humidity, non-condensing.
 Certifications: TUV
 Warranty: All units include a two year limited warranty on parts and labor.
 Origin: Manufactured in the USA.



Part No.	Description	Qty	List
S720-540	7 x 7 Ceramic Top Stirrer	1/ea	\$1333.74

Talboys Standard Multi-Position Stirrer 120V

Talboys Standard Multi-Position Stirrers are powerful magnetic stirrers with precise speed control that offers repeatable performance. Synchronized operation ensures uniform mixing at each position.

Multi-Position Stirrer is supplied with a 1" (2.5cm) PTFE coated stir bar for each position and a 92" (234cm) detachable, 3-wire cord and plug.

Operating Conditions: Units can be run in conditions from 5 to 40°C (41 to 104°F), 20% to 80% relative humidity, non-condensing.

- Stir 4, 5, 6 or 9 vessels at once
- Synchronized and uniform mixing
- Low profile design
- 5 year industry leading warranty

Control Type: Analog
 Frequency: 50 / 60 Hz
 Voltage / Amps / Watts: 120 / 1.3 / 85
 Top Plate Material: Glass Filled Nylon
 Top Plate Dimensions: 12.5 x 11" (31.8 x 27.9cm)
 Speed Range: 60 to 1400rpm
 Speed Stability: 60 to 250rpm ± 5 rpm
 250 to 1400rpm ± 2%
 Timer: 1 second to 160 hours
 Dimensions: 17 x 11 x 4" (43.2 x 27.9 x 10.2cm)
 Applications: Dissolution studies, media/reagent preparations and titration studies.
 Certifications: UL Listed
 Warranty: 5 year industry leading limited warranty on parts and labor.
 Origin: Manufactured in the USA.



Part No.	Place	Max Cap. H ₂ O	Max Vessel Diam	Qty	List
S720-157	4-Place	1L	5.1" (13cm)	1/ea	\$1390.48
S720-161	5-Place	600mL	3.75" (9.5cm)	1/ea	\$1561.98
S720-165	6-Place	400mL	3.2" (8cm)	1/ea	\$1659.46
S720-169	9-Place	250mL	3" (7.5cm)	1/ea	\$1985.19

Stir Bars

Octahedral Stir bar. Similar to pivot ring style.

Part No.	Description	Qty	List
S351-001	13 x 8mm	1/ea	\$1.62
S351-003	22 x 8mm	1/ea	\$2.85
S351-004	25 x 8mm	1/ea	\$2.85
S351-006	38 x 8mm	1/ea	\$3.78
S351-009	64 x 10mm	1/ea	\$6.48



Plain and Economy Plain Stir Bars.

Part No.	Description	Qty	List
S351-115	25 x 8mm	1/ea	\$2.16
S351-522	35 x 10mm	1/ea	\$5.43



Cross Stir bar. A very stable general purpose stirrer.

Part No.	Description	Qty	List
S351-177	25mm (1")	1/ea	\$5.90
S351-106	38mm (1-1/2")	1/ea	\$14.62



Double Cross-head stir bar. Similar to single cross-head but greater turbulence.

Part No.	Description	Qty	List
S351-103	10 x 14mm	1/ea	\$3.89
S351-104	13 x 17mm	1/ea	\$4.89
S351-018	15 x 22mm	1/ea	\$6.53



****Stir bars are also available in micro, cylindrical, removable ring, pivot ring, single crosshead, hub, do-nut, colored double ended, disposable economy, triangular, disc, giant, oval, tapered, tube, spherical, triangle with rib, wing stirrers, rare earth, color coded, glass covered and box sets. See page 416-419.**

PTFE & *Polypropylene magnetic stir bar retrievers.

Part No.	Description	Qty	List
S351-259	150 x 10mm	1/ea	\$22.77
S351-260	250 x 10mm	1/ea	\$27.95
S351-204*	450 x 10mm	1/ea	\$16.82



****Also available in PTFE/Rare earth. Ask us about other sizes.**

Silicone Lab Mat

Reusable, reliable and reversible.

Economical solution to help keep benchtops clean and safe from stains, spills and wear. Save money by eliminating the need for repeated purchases and disposal costs associated with disposable paper mats. Made from a durable FDA approved silicone material that creates a stain resistant washable working surface. When the mat is done being used, it can be easily cleaned using any standard disinfectant by simply wiping it or putting it in a dishwasher and it's ready for repeated use. Offers a large working surface that is anti-skid which when dealing with harsh chemicals and delicate glassware helps keep items in place and prohibits the lab mat from sliding out from underneath. Mat's surface is noise dampening, reducing sound from the vibration of common benchtop equipment. Can be used with items such as centrifuges, vortex mixers, hot plates, stirrers, pipettes and so much more. When using the mat with magnetic stirrers there is a designated area with internal metal inserts to keep stir bars from wandering around the working surface. A lip design around the outer edge of the mat helps contain spillage that may occur when in use keeping benchtops safe and clean.

- Made from FDA food grade silicone
- Ideal for every type of laboratory and more specialized areas such as cold rooms, clean rooms, sterile suites and areas where high sterility is a requirement
- Protect countertops from hot items up to 200°C (392°F)
- General chemical resistance from moderate oxidizing chemicals, concentrated sodium hydroxide
- NOT RESISTANT to many solvents, oils, concentrated acids and dilute sodium hydroxide
- Washable with standard disinfectants in sinks or dishwashers allow for easy clean up for repetitive uses
- Mat can be rolled up for compact storage
- Autoclavable at 121° for 15 minutes



Part No.	Description	Qty	List
M220-669	Solid Yellow / Blue & Gray	1/ea	\$67.76
M220-700	Solid Purple / Gray & Purple	1/ea	\$67.76



INCUBATORS

Heratherm™ General Protocol Microbiological Incubators

Perform a range of general applications with Thermo Scientific™ Heratherm™ General Protocol Microbiological Incubators. The Heratherm™ General Protocol Incubator line is designed with sample safety in mind, for applications in pharmaceutical, medical, food and research laboratories.

Convection Technology:	Gravity convection
Volume Chamber:	4 cu. ft. (117L)
Voltage / Hertz / Wattage / Amps:	120V / 60Hz / 540W / 4.5A
Weight:	112 lb. (51kg)
Control:	Microprocessor control with vacuum fluorescent display
Shelves:	2 supplied / 16 max.
Plug Type:	Nema 5-15 US
Temperature Range (Metric):	Ambient +5° to 75°C
Certifications/Compliance:	cCSAus
Dimensions	
Ext. (L x W x H):	22.2 x 25.2 x 32.3" (56.5 x 64 x 82cm)
Int. (D x W x H):	16.3 x 18.3 x 23.9" (41.4 x 46.4 x 60.8cm)
Electrical Requirements:	120V 60Hz



Part No.	Description	Qty	List
C601-910	General Protocol Microbiological	1/ea	\$3143.75

Heratherm™ Advanced Protocol Security Microbiological Incubators

Ensure outstanding sample safety with Thermo Scientific™ Heratherm™ Advanced Protocol Security Microbiological Incubators, which include a unique 140°C decontamination routine, lockable incubator door with alarm for restricted access and automatic over- and under-temperature alarms. Models are available with a stainless-steel exterior, offering an easy to clean, robust and corrosion-resistant surface that meets the demanding needs of pharmaceutical and clinical laboratories.

Convection Technology:	Mechanical Convection
Volume Chamber:	13.45 cu. ft. (381L)
Voltage / Hertz / Wattage / Amps:	120V / 60Hz / 1380w / 11.5A
Weight:	317 lb. (144kg)
Control:	Microprocessor control w/vacuum fluorescent display
Timer:	Weekly / Real time / Hour
Temp Uniformity:	±0.2°C
Temp Stability:	±0.2°C
Shelves:	2 supplied / 39 max.
Plug Type:	Nema 5-15 US
Temp Range (Metric):	Ambient +5° to 105°C
Exterior Finish:	Coated Steel
Dimensions	
Ext. (L x W x H):	30.3 x 30.6 x 60.8" (77 x 77.8 x 154.5cm)
Int. (D x W x H):	20.6 x 21.4 x 52.6" (52.4 x 54.4 x 133.5cm)
Electrical Requirements:	120V 60Hz



Part No.	Description	Qty	List
C601-997	Advanced Protocol Microbiological	1/ea	\$9908.44

Economy Analog Incubator

Gravity convection incubator is perfect for incubating cultures, test kits and many other biological procedures that require reliable and economical heating. Includes two shelves and accommodates up to four.

Chamber Volume:	0.8 cu. ft.
Temperature Range:	Ambient +5°C to 60°C
Stability @ 37°C:	±1.5°C
Uniformity @ 37°C:	±1°C
Shelves Included:	2
Max. No. Shelves*:	4
Shelf Area:	1.7 ft. ²
Dimensions	
Ext. (W x D x H):	13 x 14 x 16-1/4" (33 x 35.6 x 41.3cm)
Int. (W x D x H):	1-1/2 x 12 x 10-1/2" (29.2 x 30.5 x 26.7cm)
Shipping Weight:	23 lb. / 10.4 kg



Part No.	Description	Qty	List
I424-957	Economy Analog Incubator	1/ea	\$1050.63

Digital Incubators (1.4 cu ft)

The Forced Air Digital incubator is excellent for a wide range of applications such as E. coli testing, bacteriology and many other biology and microbiology protocols. Supplied with a thermometer and two shelves.

Chamber Volume:	1.4 cu. ft.
Chamber Dimen (W x D x H):	13-1/2 x 13-1/2 x 13-1/2" (34.3 x 34.3 x 34.3cm)
Temp Range:	Ambient +10°C to 90°C
Stability @ 37°C:	±0.5°C
Uniformity @ 37°C:	±0.7°C
Shelves Included:	2
Max. No. Shelves:	4
Shelf Area:	1.26ft. ²
Dimensions (W x D x H):	15 1/8 x 19 x 19 1/2" (38.4 x 48.3 x 49.5cm)
Shipping Weight:	36 lbs. / 16.3kg



<u>Part No.</u>	<u>Description</u>	<u>Qty</u>	<u>List</u>
I424-995	Digital Incubators	1/ea	\$2963.29

Digital Laboratory Incubator, 5.7 Cu.Ft. (162 L)

This design does not require blowers or fans within the incubator chamber where samples are susceptible to cross contamination and the drying effects of convection. Five strategically placed heating elements, including a heated outer door, ensure uniform heating, even when the incubator chamber is fully loaded.

Outlet:	One
Access Port:	Yes
Shelving:	3 Supplied (12 Maximum)
Jacket Type:	Air
Agency Approval:	TUV - CUE
Temp Uniformity:	+/-0.35°C at 37°C
Temp Range:	Ambient +8 to 70°C
Dimensions (WxDxH)	
External:	25.5 x 26.2 x 38" (64.8 x 69.3 x 96.6cm)
Interior:	19.2 x 20 x 25.7" (48.9 x 50.8 x 65.4cm)
Max Energy Consumption:	720/960W



<u>Part No.</u>	<u>Description</u>	<u>Qty</u>	<u>List</u>
I426-001	Digital Incubator	1/ea	\$3918.33

SHEL LAB BOD Refrigerated Incubator 2.4 Cu. Ft. (68 L)

The I426-056 space-saving low temperature incubator is ideal for small volume workloads and meets APHA specifications for Biochemical Oxygen Demand (B.O.D.) analysis.

Units are equipped with a hermetically-sealed compressor, a circuit breaker to protect from electrical overload and an easy-to-clean fully insulated chamber that is corrosion-resistant. Gentle, continuous forced-air circulation ensures temperature uniformity and reproducible test conditions. Each unit also includes an independent over temperature safety controller, two shelves (adjustable in two inch increments) and a one amp interior outlet to allow the use of shakers, stirrers, roller bottles or other apparatus. This unit has a steel exterior with welded seams and corners and a double-coated, baked enamel finish. It is supplied with adjustable leveling feet and a condensation drip tray.

- Microprocessor Control
- P.I.D. Temperature Control
- LED Display of Setpoint and Chamber Temperature
- High Limit Thermostat
- Hermetically Sealed Compressor
- 24 Month Limited Warranty

Interior Outlet:	2
Shelving:	2 Supplied
Temperature Uniformity:	+/- 0.5°C at 20°C
Temperature Range:	0°C to 45°C (at 20°C ambient)
Ext. Dimensions WxDxH:	24 x 21 x 33.8" (61 x 53.4 x 85.8)
Int. Dimensions WxDxH:	16 x 12 x 21.5" (40.6 x 30.4 x 54.6)
Cap. of Standard B.O.D. Bottles:	62
Maximum Energy Consumption:	575/805W



<u>Part No.</u>	<u>Description</u>	<u>Qty</u>	<u>List</u>
I426-056	Refrigerated Incubator	1/ea	\$3536.67



LAB LIFTS

Heavy Duty Stainless Steel Lab Lifts

These heavy-duty stainless steel Lab-Lifts are ultra-stable lifting platforms with exceptional strength and durability. Constructed of stainless steel, Lab-Lifts are designed for use in extreme environments and high load applications. Equipped with over-sized, sure-grip adjustment knobs to provide extra leverage for easy height adjustments. Durable construction allows lifts to be autoclaved or chemically cleaned. Ideal for use in fume hoods or bench tops and hold a variety of items such as glassware, hotplates, baths and magnetic stirrers.



Part No.	Deck Size	Min to Max Height	Max Load	List
C870-369	3 x 3"	2.5 to 5"	100 lbs	\$214.54
C870-370	4 x 4"	2.5 to 5"	100 lbs	\$259.78
C870-371	6 x 6"	3 to 9.75"	133 lbs	\$267.72
C870-372	8 x 8"	3 to 9.75"	227 lbs	\$360.26
C870-373	10 x 10"	3.5 to 13"	247 lbs	\$392.11
C870-374	12 x 12"	4 to 19.5"	100 lbs	\$1030.54
C870-375	16 x 16"	4 to 19.5"	100 lbs	\$1831.93

Aluminum Lab Lifts

Aluminum Lab-Lifts provide stable height adjustment for various items in the lab such as flasks, baths and small equipment. Top and bottom decks are constructed of anodized aluminum. Internal supports and drive screws are constructed of stainless steel. Oversized sure-grip adjustment knobs provide smooth and accurate height adjustment. Lab-Lifts accept optional Support Rod Kit which mounts to the upper deck.



Part No.	Deck Size	Min to Max Height	Max Load	List
C870-377	4 x 4"	2.5 to 5"	66 lbs	\$199.04
C870-378	6 x 6"	3 to 9.75"	132 lbs	\$244.26
C870-379	8 x 8"	3 to 9.75"	176 lbs	\$293.37
C870-446	10 x 10"	3.5 to 13"	186 lbs	\$386.00

Lab Lift Accessories

Ratchet Tool

Designed to add extra leverage to your 12 x 12" or 16 x 16" Lab-Lift. This recommended Ratchet Tool easily attaches to the actuating rod to allow easy, accurate adjustments.



Part No.	Description	Qty	List
C870-376	Ratchet Tool	1/ea	\$76.78

17" Support Rod Kit

Ideal for creating an adjustable support stand for mounting various items such as thermometer clamps, temperature probes, flask and column clamps. This kit allows you to mount a 17" (432mm) threaded vertical support rod to the upper deck of a 6 x 6" or 8 x 8" Lab-Lift by screwing the rod into the pre-drilled hole.

Kit Includes:

- 1 - 17" (432mm) Stainless Steel Rod
- 1 - Flat Washer
- 1 - Jam Nut



Part No.	Description	Qty	List
C870-368	17" Support Rod Kit	1 kit	\$37.74

Laboratory Support Jacks

Laboratory support jacks are constructed of painted aluminum and stainless steel. The scissor jack design enables height adjustment with a simple turn of the knob.



Part No.	Deck Size	Min to Max Height	Max Load	List
B725-302	4 x 4"	2.5 to 6"	10kg	\$142.85
B725-303	6 x 6"	3 to 10.5"	20kg	\$205.45
B725-304	8 x 8"	3 to 11.875"	25kg	\$259.90

MICROSCOPES

Compound Microscopes w/Detachable 8" LCD tablet

Like the Moticam X, this WiFi digital tablet transmits live images to iOS or Android devices. Use it as a conventional microscope or share live images with colleagues using WiFi tablets, wireless laptops and HD-ready LCD monitors/projectors through HDMI.

Tablet includes preloaded Motic apps.

High resolution optics.

1.25 Abbe rack & pinion condenser.

20mm widefield eyepieces for increased field of view.

Head: Trinocular
 Eyepiece: W10XD, 20mm
 Objectives: 4XD, 10XD, 40CRD, 100CRD Plan phase
 Stage: Built-in mech
 Condenser: Abbe 1.25 Rack & pinion
 Illuminator: Corded 3W LED w/ Dimmer



Part No.	Description	Qty	List
M800-008	Compound Microscope	1/ea	\$3373.75

Binocular Microscope - Features Magnifications of 10X to 30X

The M800-133 includes energy-efficient variable LED illumination with 5 light setting combinations, "one-touch" spring loaded stage clips and right eyepiece diopter focusing adjustment. Ideal for high school classrooms and up.

Locked-on Eyepiece and stage clips.

Slip-Clutch system protects against over-focusing.

C-wrench gives user control of focus tension.

Built-in handle to encourage proper handling.

Head: Binocular
 Eyepiece: W10X, 20mm
 Objectives: 1X to 3X zoom
 Illuminator: Turret variable 6 x 0.6W LED, Top variable .05W, bottom .05W LED Corded



Part No.	Description	Qty	List
M800-133	Microscope 10X to 30X	1/ea	\$698.75

Dual Mag. Stereo Microscope (2X & 4X)

Precise optical alignment assures a three-dimensional, upright, unreversed image that is unsurpassed for everything from dissecting work to examining circuit boards. This model is a real workhorse for education and industry. Change between two magnifications simply by turning objective turret. Both transmitted and incidental fluorescent illumination provide cool, efficient lighting.

Head: 45° inclined head, rotates 360°
 Eyepiece: 10x, 20mm
 Magnification Options: 2X & 4X
 Stage: 80mm; frosted glass, reversable black & white
 Top Illumination: 110V, 5 Watt fluorescent
 Bottom Illumination: 100V, 5 Watt fluorescent
 Maximum Specimen Height: 31mm



Part No.	Description	Qty	List
M800-191	Dual Mag. Stereo Microscope	1/ea	\$493.75

Microscope Accessories

Plain Glass Microscope Slides

Pre-cleaned slides are 75mm x 25mm. Made of quality sheet glass, with ground edges.

Style: Plain
 Dimensions: 75mm x 25mm
 Thickness: 1.0mm to 1.2mm



Part No.	Description	Qty	List
S465-048	Microscope Slides Plain	72/pk	\$5.63



Frosted Ends Glass Microscope Slides

Pre-cleaned slides with one frosted end are 75 x 25mm. Made of quality sheet glass with ground edges. Frosted end is designed for easy marking and organization of slides.

Style: Frosted
Dimensions: 75mm x 25mm
Thickness: 1.3mm

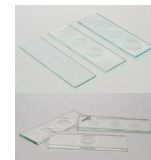


Part No.	Description	Qty	List
S465-050	Microscope Slides Frosted Ends	72/pk	\$6.58

Concavity Slides, Glass

Pre-cleaned slides with concavities are 75 x 25mm. Spherical concavities are approximately 16mm in diameter and 0.8mm deep. Available with single, double or triple concavities. Made of quality sheet glass, with ground edges.

Part No.	Description	Qty	List
C222-039	1 Concavity; 1.3mm Thick	12/pk	\$12.85
C222-040	2 Concavities; 1.3mm Thick	12/pk	\$9.15
C222-041	3 Concavities; 1.3mm Thick	12/pk	\$35.65
C221-954	1 Concavity; 3mm Thick	12/pk	\$17.40
C221-953	2 Concavities; 3mm Thick	12/pk	\$26.15
C221-952	3 Concavities; 3mm Thick	12/pk	\$40.50



Glass Coverslips

Pre-cleaned coverslips are made of quality, non-corrosive glass and packaged in 1 oz. boxes. The 22 x 22mm sized coverslips are available in thickness #1 or #2. The #1 thickness ranges from 0.13 to 0.17mm. The #2 thickness ranges from 0.18 to 0.25mm. A 1 oz. package includes more than 100 coverslips.

Part No.	Description	Qty	List
S465-136	#1, 18 x 18mm	1oz/pk	\$3.58
S465-137	#1, 22 x 22mm	1oz/pk	\$2.86
S465-135	#2, 22 x 22mm	1oz/pk	\$5.98



Plastic Microscope Cover Slips

Unbreakable and flexible 0.157mm (0.006") vinyl 22 x 22mm cover slips, each interleaved with tissue.

- Packaged in 10 boxes of 100 cover slips each

Part No.	Description	Qty	List
M441-556	22 x 22mm Cover Slips	1000/cs	\$106.50



Coplin Staining Jar, PP, Flat Cap

Coplin staining jar with flat cap is made of polypropylene and can hold 10 slides (3" x 1") back to back. The interior is grooved to hold the slides in an upright position. Flat cap features large milled edge for easy hand grip and has a built-in plug seal. Autoclavable.

Part No.	Description	Qty	List
B724-399	10 Places; 114mm height	12/pk	\$52.10



Coplin Staining Jar; PP, Flat Cap, Lg. Opening

This polypropylene jar improves on the classic tapered square design with a larger opening for easier placement and removal of slides. The polypropylene screw cap is 5.3cm in diameter, has a flat top, easy grip knurled edge, deep thread and a seal ring to prevent leaks.

- Five internal slots hold up to 10 standard 25 x 75mm (1 x 3") slides back to back
- Base diameter: 6cm (2 $\frac{3}{8}$ "); Height: 11.4cm (4 $\frac{1}{2}$ ")
- Steam autoclavable at 121°C (250°F); remove cap when autoclaving

Part No.	Description	Qty	List
M441-546	10 Places; Lg Opening	1/pk	\$12.60



Coplin Staining Jar with Cover, Glass

Part No.	Description	Qty	List
G445-029	Glass Coplin Stain Jar	1/ea	\$43.33



Stains, Stain Jars, Staining Kits, Immersion Oils & Slide Mailers are also Available!

Slide Mailer; 10 Slide Capacity, Plastic

Chemically inert, polyethylene container has a deep screw cap to provide maximum protection against breakage. Once cap is removed slides project 12.7mm (½") out of the jar for easy grip and clean handling.

- Internal grooves accept 5 to 10 microscope slides 25 x 75mm (1 x 3"); can be used as a specimen jar to hold vials up to 12mL.
- Cap has a small loop for attachment of wired tags; should be taped for shipment.



Part No.	Description	Qty	List
M441-545	10 Slide Capacity	6/pk	\$117.33

LockMailer™ Microscope Slide Jar

Jar made of polypropylene.

Closure made of high density polyethylene.

At last a tamper evident multi purpose container for mailing, staining or storing microscope slides.

Constructed of extra-strong and clear polypropylene, it will hold up to 4 standard 3 x 1 in. or 75 x 25mm slides vertically. Inside channels are slotted to keep slides safely separated. Perfect also for slide conveyors and specimen slide transport between the doctor's office and the lab.

It incorporates a unique tamper evident leakproof screw cap ensuring your peace of mind during transport or storage situations where someone might have manipulated your slides without your prior knowledge. Can also be used without the tamperproof locking mechanism. For color coding purposes, use a Capinsert™ that may be inserted on top of closure. Ten different colors are available.

The container is designed for maximum stability on a bench top while having an internal volume of only 12mL.

Dimensions: 35 x 87mm H (1 3/8 x 3 7/16" H)



Part No.	Description	Qty	List
M650-487	Magenta	500/cs	\$259.38

Microscope Slide Dispenser

ABS plastic dispenser releases clean, dust-free 25 x 75mm (1 x 3") slides one at a time by turning the knob on either side.

- Clear plastic cover allows easy visual check on slides remaining; pulls off vertically for refilling.
- Holds approximately 72 slides, depending on thickness.

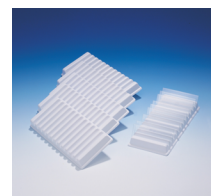


Part No.	Description (W x D x H)	Qty	List
M441-549	11.1 x 12.4 x 14cm (4 ³ / ₈ x 4 ⁷ / ₈ x 5 ¹ / ₂ "	1/ea	\$100.35

12-Place Microscope Slide Holder; Plastic

With these handy files near your microscope, slides are always separated, visible and orderly.

- Vacuum-formed polystyrene 12-place slide holder.
- Allows slides to project over the rack's edge for easy handling.

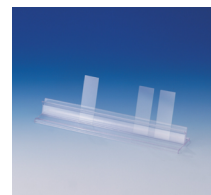


Part No.	Description (L x W x H)	Qty	List
M441-548	8.6 x 17.8 x 1.9cm (3 ³ / ₈ x 7 x 3/4")	6/pk	\$78.17

10-Place Microscope Slide Holder Strip, Plastic

This slide holder has a sloped groove that accepts up to 10 single or double slides standing on end.

- Front ledge serves as a place to dry slides.
- Made of durable polystyrene.



Part No.	Description (L x W x H)	Qty	List
M441-547	25 x 5 x 3cm (10 x 2 x 1 1/4")	1/ea	\$19.05

Slide Staining Tray

Reduce possible cross contamination and messy work areas.

Stain, rinse and dry slides on a single working tray. Made of a polypropylene and polyethylene blend, this rugged staining tray is an economical alternative to metal versions.

- A clean and fresh working surface area every time.
- Up to eight slides fit comfortably onto the base and the deep well holds up to 38mL.
- Compact size and recessed handles for easy transport from work area to sink.
- Two convenient pour spouts for quick disposal of unwanted liquid waste.
- Dark lid protects slides for light sensitive applications.
- Pack of 4 base trays and 1 lid.
- Disposable.



Part No.	Description (L x W x H)	Qty	List
M220-193	305 x 127 x 39.5mm	1/pk	\$48.95

5-Place Slide Mailer, Plastic

Ideal for secure shipping, storing or staining slides.

- Polypropylene containers hold five standard slides (25 x 75mm and 1 x 3")
- Inside wall features slotted channels to keep slides separated and to make removal easier
- Lid closes securely to keep slides safe.
- Side-opening mailers measure 81 x 19 x 31mm
- End opening mailers measure 43 x 24 x 88mm
- Disposable



Part No.	Description (L x W x H)	Qty	List
M220-198	81 x 19 x 31mm; Natural	25/pk	\$16.90
M220-203	43 x 24 x 88mm; Natural	25/pk	\$16.58
M220-201	43 x 24 x 88mm; Red, Yellow, Blue, Purple, & Orange	25/pk	\$16.90

2-Place Slide Mailer, Plastic

Ideal for secure shipping and storing of slides.

- Polypropylene protectors hold two standard (25 x 75mm and 1 x 3") slides securely
- Large, easy to-secure snaps, for safe storage for valuable slides
- Array of colors brings some fun to the lab and is useful for color coding
- Disposable



Part No.	Description (L x W x H)	Qty	List
M220-199	93 x 68 x 5mm; Assorted (Red, Yellow, Blue, Purple, & Orange)	25/pk	\$16.50
M220-200	93 x 68 x 5mm; Natural	25/pk	\$16.50

Cardboard Slide Mailer

Heavy cardboard holders for safe transport of microscope slides. Thumb grooves make the removal of slides easy.

- 1- and 2-place slide mailer versions
- Each will hold 25 x 75mm (1 x 3") and/or 26 x 76mm sized slides
- Disposable



Part No.	Description (L x W x H)	Qty	List
M220-563	1-Place; 95 x 42 x 5mm; Natural	25/pk	\$27.55
M220-564	2-Place; 103 x 79 x 5mm; Natural	36/pk	\$58.53

Slide Holders

Hold slides during evaluation, cleaning and drying.

- Made from chemical-resistant polyethylene
- Solid, strong construction with rubber feet for bench top stability



Part No.	Description (L x W x H)	Qty	List
M220-197	15 Slides; 153 x 102 x 21mm	1/ea	\$50.40
M220-196	78 Slides; 299 x 178 x 21mm	1/ea	\$67.55
M220-195	40 Slides; 298 x 105 x 24mm	1/ea	\$54.21

Standard Microscope Slide Boxes

Constructed of durable polypropylene, slide boxes hold either 25 or 100 standard slides (25 x 75mm and 1 x 3").

- Hinged lids are held securely closed by latch lock
- Stacking feet maximize stability
- Slide Identification card
- No liner



Part No.	Description (L x W x H)	Qty	List
M220-241	25 Slides; 141 x 92 x 30mm; Blue	1/ea	\$5.18
M220-242	25 Slides; 141 x 92 x 30mm; Red	1/ea	\$5.18
M220-243	25 Slides; 141 x 92 x 30mm; White	1/ea	\$5.18
M220-244	100 Slides; 210 x 169 x 37mm; Blue	1/ea	\$7.03
M220-245	100 Slides; 210 x 169 x 37mm; Red	1/ea	\$7.03
M220-246	100 Slides; 210 x 169 x 37mm; White	1/ea	\$7.03

True North® Microscope Slide Boxes

Store in ultra-low temperatures with confidence.

Protect your slides in ultra-low temperature ranges down to -80°C.

- Durable polycarbonate and stainless steel clasp
- Safe storage and transport of 25 x 75mm (3 x 1 inch) slides
- Uniform grooved slide slots separate slides preventing slide contact
- Temperature-resistant numbered foam lining and identification sheet
- Packaging: 1/ea and 72/cs
- Stackable



Part No.	Description (L x W x H)	Qty	List
M220-232	100 Slides; Nickle Hinge; 208 x 175 x 34mm; Purple	1/ea	\$26.50
M220-662	25 Slides; Friction Fit Hinge; 141 x 88 x 35mm; Blue	1/ea	\$13.50

Cleanware Microscope Optics Cleaning Kit

Contains everything you need to keep optics and microscope parts sanitary, clean and clear. No Air Shipment.

- Ten, pre-saturated optical cleaning pads (10)
- Two individually wrapped packs of anti-static plastic surface wipes (2)
- Two, 15.2cm (6") swabs which are pre-moistened with germicide (2)
- Complete instructions for use



Part No.	Description	Qty	List
M440-312	Cleaning Kit	1/ea	\$134.40
M440-313	Additional Pre-Saturated Optical Cleaning Pads, 5 x 8"	10/pk	\$28.13

Vikem® Vinyl Microscope Covers

These transparent Vikem® vinyl covers protect your valuable microscopes, balances and other instruments from dust and spills.

- Cover slides over the instrument when not in use
- Available in three standard sizes
- Custom sizes to fit other sizes and instruments available by special order



Part No.	Description	Qty	List
M440-570	Standard Size 33 Bottom x 23 Top x 42cm H (13 x 9 x 16½")	1/ea	\$19.80
M440-571	Large Size 41 Bottom x 28 Top x 46cm H (16 x 11 x 18")	1/ea	\$26.63
M440-572	Extra Large Size 46 Bottom x 38 Top x 56cm H (18 x 15 x 22")	1/ea	\$33.08

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 is your **One Stop Shop** for all of your laboratory needs.

MILLS

The grinding of solid samples is essential to ensure precise analysis. It is important that the grinding leads to the homogeneity and desired fineness of the sample.

The type of mill to be used depends on the properties of the substance and the quantity of the sample. For example, brittle materials are ground with a beater, fibrous materials with a blade and hard/brittle materials are ground with a special hard metal cutter.

Small sample quantities are generally ground with a batch mill. Here, the samples are ground very smoothly and a particle size spectrum of the ground material can be expected. Larger quantities can be ground with an inline mill. The sample passes through a sieve, which leads to the ground material achieving a defined particle size.

Problems can arise when soft and tough materials such as rubber or plastics have to be ground. The problem can be solved through the embrittlement of the sample with dry ice or liquid nitrogen. The sample can then be ground without difficulty.



A 10 Basic Mill

The redesigned batch mill grinds hard, brittle, soft and fibrous materials for volumes up to 50mL. Because samples may be embrittled directly in the grinding chamber; tough, oily and aqueous samples can also be grinded. The development of the mill placed particular emphasis on safety. The mill will only start when the lid is closed and can only be opened at standstill. A quick stop feature further increases the safety of the user.

Test results of the new A 10 basic are comparable with the ones of the previous model A 10, due to the same grinding chamber, cutter geometrics and speed.

- Digital timer
- Counter: Display of grinding time
- Interval function
- Brushless motor for long service life and low noise level
- Integrated cooling connections
- Error code display
- Simple handling with keypads
- Easily exchangeable beater/cutter for a variety of applications
- Grinding chamber reduction for small sample sizes and stainless steel cutter A 10.1 included with delivery
- Bayonet lock for lid to enable simple and safe locking



Part No.	Description	Qty	List
E560-803	A 10 Basic Mill	1/ea	\$2283.33
E560-802	10.1 Stainless Steel Cutter	1/ea	\$125.72
E560-796	10.3 Hard Metal Cutter	1/ea	\$731.94
E560-797	10.2 Star Shaped Cutter	1/ea	\$731.94
E560-801	10.4 Grinding Chamber Reduction	1/ea	\$272.11

A 11 Basic Analytical Mill

Batch mill for 2 different grinding procedures:

Impact grinding of hard, brittle or non-elastic grinding materials with high-grade stainless steel beater. This beater can be used for a Mohs hardness up to 6 (incl. with delivery).

Cutting grinding for pulverizing soft, fibrous materials with a cutting blade (not incl. with delivery).

- Moist and gluey materials can be pulverized by adding water
- Grinding chamber made of Tefcel (PTFE, glass fiber-reinforced) with stainless steel inlet (1.4571), useful volume 80mL (incl. with delivery). For embrittlement of grinding materials with liquid nitrogen in the grinding chamber
- Optionally, a 250mL grinding chamber is available



Part No.	Description	Qty	List
E560-126	A 11 Basic Analytical Mill	1/ea	\$2543.06
E560-128	11.1 Spare Beater	1/ea	\$95.83
E560-148	11.7 Funnel	1/ea	\$548.61
E560-127	11.4 Grinding Chamber	1/ea	\$329.17
E560-143	11.5 Spare Grinding Chamber	1/ea	\$444.44
E560-129	11.2 Cutting Blade	1/ea	\$230.56
E560-142	11.3 Beater	1/ea	\$340.28
E560-173	11.6 Double Beater	1/ea	\$669.44

Micro-Mill® II Grinder; Stainless Steel Blade, 115VAC, 60Hz

The Micro-Mill® II Grinder is ideal for rapid, high speed milling of small samples from 20 to 50mL. The 1/5 horsepower (150 Watt) motor drives a stainless steel blade that quickly pulverizes bauxite, bone, ceramics, coal, Devarda's alloy, fertilizer, filter paper, fly ash, frozen tissue, glass, grain, kaolinites, leaves, limestone, frozen tissue, pharmaceuticals, pigment blends, rocks, roots, shale, seeds, slags, soil, teeth, wood and more! This motor is designed to provide continuous high torque to maintain blade velocity for fastest sample pulverizing. Supplied with a 1.8M (6 ft) 3-wire grounded cord.

- Two-position rocker switch allows either pulse or continuous operation to match with sample requirements
- Built-in switch prevents grinder operation unless all parts are completely assembled to the base; resettable circuit breaker protects the mill if the sample jams the blade
- Grinding chamber assembly is removable to allow complete sample recovery and cleaning
- Softer samples or temperature-sensitive samples, such as frozen tissue, leaves, roots, seeds and wood can be processed by adding dry ice to the grinding chamber during processing.
- For users pulverizing very hard material, a stellite faced hard blade is available (M441-153).
- Additional accessory grinding chamber (M441-148) can be used to reduce cross contamination between dissimilar samples; includes upper and lower grinding chamber sections with blade
- Non-skid feet prevent movement of the mill during use and won't mar benchtops
- Overall dimensions: 30.5 x 26 x 15.9cm high (12 x 10¼ x 6¼"); shipping weight: 2.72 kg (6 lbs)



Part No.	Description	Qty	List
M441-147	Micro-Mill® II Grinder, 115VAC, 60Hz	1/ea	\$2195.10
M441-148	Accessory Grinding Chamber	1/ea	\$507.38

Micro-Mill® Grinders; Stainless Steel Blade and Grinding Chamber; 115VAC, 60Hz

With Interchangeable Grinding Chambers

For rapid, high-speed grinding of small samples from 20 to 50cc. Stainless steel or hard-faced blade rotates at speeds up to 12,000rpm to successfully grind bauxite, bone, ceramics, coal, Devarda's alloy, fertilizer, filter paper, fly ash, frozen tissue, glass, grain, kaolinites, leaves, limestone, pharmaceuticals, pigment blends, plastics, rocks, roots, shale, seeds, slags, soil, teeth, wood, etc. To provide safety and prevent sample loss, the grinder operates only when the cover is latched in place. Supplied with a 1.8M (6ft) 3-wire cord and grounded plug. Three models available.



- 1/5 horsepower (150 Watts) motor develops a torque of 2.2kg-cm (30oz-inches) at 12,000rpm
- Temperature is maintained by means of built-in heat exchangers
- Control panel has an overload protection reset button and a pilot light
- Tubing connections 6.4mm (1/4") on the cover and housing accept tubes for circulating water or slurry
- Cover, grinding assembly and milling blade head are removable for cleaning
- Stainless steel chamber is 54mm diam x 25mm deep (2 1/8 x 1") inside an aluminum housing with an epoxy finish and non-skid rubber feet
- Overall dimensions: 14 x 18 x 28cm high (5 1/2 x 7 x 11"); shipping weight: 6.4 kg (14lbs)

Part No.	Description	Qty	List
M441-146	Grinder w/ SS Blade	1/ea	\$3571.08
M441-149	Grinder w/SS Blade; w/Electrical Timer	1/ea	\$3766.25
M441-151	Grinder w/Stellite Faced Blade; w/Timer	1/ea	\$4401.25

Micro-Mill® Grinder Replacement Blades

Part No.	Description	Qty	List
M441-152	Replacement Blade - 304 Stainless Steel	1/ea	\$44.50
M441-153	Hard-Faced Accessory Blade / Stellite	1/ea	\$171.42

ORBITAL SHAKERS

Talboys Incubating/Cooling Orbital Shaker

Microplate ready without the need for any additional accessories. Optional modular blocks can accommodate micro-tubes, centrifuge tubes, vials or culture tubes. Unit holds microplates or modular blocks with a 5" (12.7cm) tall interior capacity. Ideal for analyses that requires a stable, controlled temperature. Model 1000IC-3 Incubating/Cooling Orbital. Shaker is supplied with an adapter bracket to hold optional modular blocks. Shaker includes a 5 year, industry leading limited warranty on parts and labor.

LED displays for temperature, speed and time

Calibration mode for temperature

- Control Type: Digital
- Frequency: 50 / 60 Hz
- Voltage/Amps/Watts: 120V / 2 / 200
- Temperature Range: 10°C below Ambient to 65°C
- Temperature Uniformity: ±0.5°C at 37°C
- Speed Range: 100 to 1200 rpm
- Using Microplates: 100 to 1200 rpm
- Using Modular Blocks: 100 to 600 rpm
- Speed Accuracy: ±2%
- Timer: 1 second to 160 hours
- Orbit: 3mm (0.12")
- Maximum Capacity: 2 microplates or 2 modular blocks
- Overall Dimensions: 17.9 x 11 x 10.5" (45.5 x 27.9 x 26.7cm)
- Operating Conditions: Unit can be run in conditions from 5 to 40°C (41 to 104°F), maximum 80% relative humidity, non-condensing.
- Applications: Cell and bacterial cultures, hybridizations and enzyme reactions.
- Certifications: CSA Listed
- Warranty: 5 year industry leading limited warranty on parts and labor.



Unit includes a 92" (234cm) detachable, 3-wire cord and plug. Unit is also supplied with an adapter bracket to hold optional modular blocks.

Part No.	Description	Qty	List
S720-059	Incubating/Cooling Orbital Shaker	1/ea	\$5676.67



Talboys Advanced Digital 5000 Orbital Shaker

Designed for a wide range of applications with larger or heavier loads that require accurate and repeatable results. Supplied with an 18 x 24" (45.7 x 61cm) non-skid rubber mat.
 LED Displays for speed and time
 Exclusive Patented Accu-Drive Shaking System
 50lb weight capacity
 5 year industry leading warranty
 Control Type: Digital
 Frequency: 50 / 60Hz
 Voltage/Amps/Watts: 120 / 5 / 75
 Speed Range: 20 to 500rpm
 Speed Accuracy Above 100rpm: ±1% of set speed
 Speed Accuracy Below 100rpm: ±1 rpm
 Timer: 1 second to 160 hours
 Orbit: 25mm (1")
 Maximum Capacity: 50 lb (22.7 kg)
 Tray Material: Aluminum
 Applications: Cell cultures, solubility studies and extraction procedures.
 Certifications: TUV Listed
 Warranty: 5 year industry leading limited warranty on parts and labor.
 Unit includes a 92" (234cm) detachable, 3-wire cord and plug. Unit is also supplied with an 18 x 24" (45.7 x 61cm) non-skid rubber mat.
 Tray Dimensions: 18 x 24" (45.7 x 61cm)
 Overall Dimensions: 23.6 x 26.7 x 6" (59.9 x 67.8 x 15.2cm)
 Operating Conditions: Unit can be run in cold rooms, incubators and CO2 environments from -10 to 60°C (14 to 140°F), maximum 80% relative humidity, non-condensing.



Part No.	Description	Qty	List
S720-083	Talboys Advanced Digital 5000	1/ea	\$6397.69

Orbi-Shaker™

This powerful shaker is capable of mixing a 14lb load capacity up to speeds as high as 300 rpm. The standard platform (included) features a non-slip; rubber coated surface, ideal for tissue culture flasks, petri dishes and staining trays.
 High capacity, up to 9 x 500mL, 5 x 1L or 2 x 2L
 Horizontally circular 19mm orbit for aeration & mixing
 Digital speed control up to 300rpm
 Instantly exchange flask clamps with MAGic Clamp™ accessories (patented)
 Speed: Variable 30 to 300rpm
 Orbit: 19mm
 Max Capacity: 5 x 1L (14lbs / 6kg)
 Speed Increment: 1rpm
 Platform Dimensions: 13 x 12" (33 x 30cm)
 Operating Temp: 4 to 65°C
 Dimensions: 11 x 13 x 3" (28 x 33 x 7.5cm)
 Weight: 25lbs (11.25kg)
 Electrical: 120V or 230V 50-60hZ 600W
 Warranty: 2 years



Part No.	Description	Qty	List
E400-085	Orbi-Shaker	1/ea	\$1494.00
E400-091	MAGic Clamp™ Universal Platform (LG) for Flasks & Tube Racks, 14 x 12"	1/ea	\$229.00
E400-107	Dedicated Platform, 5 x 500mL Erlenmeyer Flasks	1/ea	\$299.00
E400-108	Dedicated Platform, 8 x 250mL Erlenmeyer Flasks	1/ea	\$299.00
E400-109	Dedicated Platform, 12 x 125mL Erlenmeyer Flasks	1/ea	\$299.00
E400-110	Dedicated Platform for 4 Microplates	1/ea	\$479.00
E400-111	Universal Spring Platform for Unique Vessel Types	1/ea	\$469.00

Also Available for the Orbi-Shaker:
 MAGic Clamp Flask Clamps
 MAGic Clamp Tube Racks

OVENS

Thermo Scientific™ Precision™ Oven

Compact Ovens, featuring mechanical convection. Ideal for drying and baking applications. Double-wall interior with 2.5cm (1in.) Silica-based insulation and powder-coated cold-rolled steel exterior. Pilot light visually indicates oven operation status. Double-wall interior with 2.5cm (1in.) silica-based insulation and powder-coated cold-rolled steel exterior. UL/cUL listed.

Chamber Material:	Stainless steel
Depth Interior:	11.5" (29cm)
Display:	LED
Dimensions (D x W x H) Interior:	11.5 x 16 x 16.2" (29 x 41 x 41cm)
Dimensions (L x W x H) Exterior:	15.6 x 18.5 x 25" (40 x 47 x 64cm)
Shipping Weight:	80 lb. (36kg)
Temperature Range:	Ambient +5° to 210°C
Temperature Control:	Hydraulic Thermostat
Electrical Requirements:	120V / 60Hz



<u>Part No.</u>	<u>Description</u>	<u>Qty</u>	<u>List</u>
C602-339	Mechanical Convection Compact Oven	1/ea	\$2970.83

Air Forced Lab Oven

Exteriors are painted light gray and have a hard, scratch-resistant hammer finish. Doors open with high-impact thermoplastic handles. Cabinets have heavy steel double-wall construction. Work space is insulated from the outer cabinet with one inch of high-density mineral wool and interiors are made of corrosion-resistant aluminized steel.

Interior Dimen:	12 x 8.25 x 10" (30.5 x 21 x 25.4cm)
Exterior Dimen:	14 x 20.5 x 12.3" (35.6 x 52 x 31.2cm)
Capacity:	0.6 Cu.Ft. 17L
Max Temp:	450°F (232°C)
Shelves:	8 (35 lbs max/shelf)
Electrical:	120V 6.6 Amps, 800 Watts, 5-15P NEMA
Weight:	50.4lbs (shipping) 37.2lbs (Stand alone)



<u>Part No.</u>	<u>Description</u>	<u>Qty</u>	<u>List</u>
E660-016	Air Forced Lab Oven	1/ea	\$730.00

Forced Air Oven, 3 Cu.Ft, 115V

The O540-022 has a quick ramp-up time to 306°C for faster cycle times. This unit includes an advanced PID temperature control system for sensitive response. Typical applications for the oven include aging, asphalt testing, curing, drying, pre-heating, conditioning and life cycle testing. This unit is equipped with a stainless steel interior for long life operation and easy cleaning. Its triple wall construction minimizes external wall temperature which meets CE requirements to keep workspaces cool.

Operating Range:	Ambient +15°C - 306°C
Temperature Uniformity-Midrange:	1.8°C
Temperature Stability-Midrange:	0.3°C
Exterior Dimen:	26.9 x 28.6 x 34" (684 x 727 x 840mm)
Interior Dimen:	16.5 x 19.5 x 16.2" (419 x 495 x 412mm)
Capacity:	3.0 Cu.Ft. (85.0 L)



<u>Part No.</u>	<u>Description</u>	<u>Qty</u>	<u>List</u>
O540-022	Forced Air Oven	1/ea	\$3740.00

Forced Air Oven

This forced air oven delivers precise uniformity, air distribution and peace of mind. Embedded microprocessor control with countdown timer. Horizontal forced airflow. 1.75" (4.5cm) Access Port. UL/CSA Approved. CE Approval. DIN 12880 Compliant. 24 Month Limited Mfg. Warranty.

Weight:	208 lbs
Heat-up (min):	28 minutes to 150°C
Shelving:	2 Supplied (9 Maximum)
Temperature Uniformity:	+/-1.75°C at 150°C
Temperature Range:	20°C above ambient to 306°C
Exterior Dimen:	31.4 x 28.1 x 38.8" (79.8 x 71.4 x 98.5cm)
Interior Dimen:	21.0 x 19.4 x 20.7" (53.3 x 49.4 x 52.7cm)
Capacity:	4.9 Cu.Ft. (138 L)



<u>Part No.</u>	<u>Description</u>	<u>Qty</u>	<u>List</u>
O540-024	Gravity Lab Oven	1/ea	\$4906.67



Gravity Convection Lab Oven

Exteriors are painted light gray and have a hard, scratch-resistant hammer finish. Doors open with high-impact thermoplastic handles. Cabinets have heavy steel double-wall construction. Work space is insulated from the outer cabinet with one inch of high-density mineral wool and interiors are made of corrosion-resistant aluminized steel.

Interior Dimen: 13 x 13 x 13" (33 x 33 x 33cm)
 Exterior Dimen: 15 x 21.5 x 15.3" (38 x 54.6 x 38.9cm)
 Max Temp: 450°F (232°C)
 Shelves: 13 (35lbs max/shelf)
 Electrical: 120V, 6.3 Amps, 750 Watts, 5-15P NEMA
 Weight: 57 lbs (shipping) 43.5 lbs (stand alone)



Part No.	Description	Qty	List
E660-013	1.27 Cu.ft (36L) Capacity	1/ea	\$600.00

Interior Dimen: 12 x 10 x 10" (30.5 x 25.4 x 25.4cm)
 Exterior Dimen: 14 x 17.5 x 12.3" (35.6 x 44.5 x 31.2cm)
 Max Temp: 450°F (232°C)
 Shelves: 10 (35lbs mx /shelf)
 Electrical: 115V, 5.2 Amps, 600 Watts, 5-15P NEMA
 Weight: 42.6 lbs (shipping) 31.4lbs (stand alone)



Part No.	Description	Qty	List
E660-012	0.7 Cu.ft 19.8L Capacity	1/ea	\$505.00

Gravity Lab Oven

The double wall insulation and low watt density heater keeps temperatures uniform and keep your energy consumption down. Three-inch adjustable port. Stainless steel shelves adjustable on 1/2" increments. Independent hydraulic over-temperature safety. High temperature silicone door seal. Wrap around insulation for excellent heat retention. Durable powder coat paint exterior finish.

Thermometer supplied. 24 month mfg. limited warranty
 Weight: 100lbs
 Shelving: 2 Supplied (holds 8 max)
 Temp Uniformity: ±4°C
 Temp Range: Ambient +8°C to 200°C
 Exterior Dims. (W x D x H): 25 x 24.5 x 37.8" (63.5 x 62.3 x 95.9cm)
 Interior Dims. (W x D x H): 20 x 19 x 28" (50.8 x 48.5 x 71.1cm)
 Maximum Energy Cons. (W): 1080



Part No.	Description	Qty	List
O540-006	6.2 Cu.ft (174L) Capacity	1/ea	\$2400.00

Bench Ovens

General-purpose Bench series ovens have been developed primarily for the industrial lab. This series provides large bench or portable capacity. All of our Bench series ovens offer these standard features: fan-forced air circulation, aluminized interiors, Incoloy sheathed heating elements, 6-lb high-density mineral wool insulation, gasketed doors, adjustable 80-lb capacity shelves, high/low heat switch, rapid run-up and recovery times, 6-foot cord with plug, baked in scratch-resistant powder coated finish and an 18-month factory warranty. All ovens are fully tested prior to shipment.

Bench ovens are perfect for: preheating, thermal testing, self-batch processing, part drying, curing, baking, evaporating or dehydrating various media and soil aggregate, as well as many other applications. All units feature large work spaces and excellent portability.

Our large model selection includes two different sizes of 7 cu. ft. or 10.6 cu. ft., along with varying temperature ranges up to 550°F (287°C) and the affordability of analog or the ease, convenience and increased uniformity of the digital-control models. The digital PID microprocessor provides not only ease of temperature setting, but temperature tracking and ramp & soak capability, allowing for the most demanding applications. Digitally controlled ovens use a 'J'-Type thermocouple and will hold set temperatures to within ±0.5°C, providing improved uniformity.



Analog Control Models

Part No.	Description	Qty	List
E660-036	115 Volt, 50/60 Hz, 1 Phase; 7.0 Cubic Feet	1/ea	\$1520.00
E660-042	115 Volt, 50/60 Hz, 1 Phase; 10.6 Cubic Feet	1/ea	\$1745.00

Digital Control Models

Part No.	Description	Qty	List
E660-047	115 Volt, Ramp & Soak Digital Controls; 7.0 Cu. Ft	1/ea	\$1995.00
E660-050	115 Volt, Ramp & Soak Digital Controls; 10.6 Cu. Ft	1/ea	\$2235.00

OVERHEAD - STIRRERS

Ultra Torque Stirrers

Designed and engineered specifically to meet the continuous demands of heavy industrial use. The heart of the BDC line is the high performance Brushless Direct Current (BDC) motor. A unique two speed transmission provides incredible amounts of power. Stirrers are quiet, dependable, maintenance free and ideal for continuous use.

- Brushless DC motor
- Totally enclosed metal housing
- Electronic control
- Smart two-speed transmission
- Through shaft
- Chuck guard included
- High efficiency (less heat)
- Protection from dust and product splashing
- Precise speed adjustment and speed maintenance as viscosity changes



- Transmission selects high-torque or high-speed range
- Easy impeller adjustment saves time
- Safely encloses spinning chuck to protect user
- Protects chuck from splashes
- Speed: 12-1800rpm
- Volume Maximum: 80L (21 US Gallons)
- Viscosity Maximum: 90 000 mPa*s (90 000 cps)
- Torque Maximum: 568 Ncm (50"- lbs = 800"- oz)
- Output Power: 150 Watts
- Speed Display: Yes
- Speed - Low Range: 12-360rpm
- Speed - High Range: 360-1800rpm
- Speed Accuracy: +/- 1rpm
- Torque Display: Yes
- Torque Maximum - Low Speed: 568 Ncm (50"- lbs = 800"- oz)
- Torque Maximum - High Speed: 114 Ncm (10"- lbs = 160"- oz)
- Torque Accuracy: +/- 12 Ncm (+/- 1"- lb)
- Zero Torque: Yes
- Timer: No
- Through Shaft: Yes
- Chuck Maximum Shaft Diameter: 9.5mm (3/8")
- Chuck Guard: Yes
- Rotation Direction: Clockwise only
- Housing: Cast Aluminum
- Weight: 5Kg (11 lb)
- Voltage: 120V / 230V
- Frequency: 50/60 Hz
- Ambient Temp Operation: 5-40°C (41-104°F)
- Relative Humidity Operation: 80%
- Approvals: Certified to applicable UL and CSA standards
- Warranty: 3 years

Part No.	Description	Qty	List
M400-010	Ultra Torque Stirrer	1/ea	\$2392.00

Stirlight™ Overhead Stirrer

Offers ultimate versatility and maximizes productivity. With the push of a button, the unique Stirlight™ lights up so that solutions can be seen clearly.



- Sealed housing
- Brushless DC motor
- Digital display
- Through shaft
- Electronic digital control
- Allows monitoring of mixing properties of batches
- Keeps liquids and moisture out in aggressive environments
- High efficiency (less heat)
- Precise speed adjustment
- Easy impeller adjustment saves time
- Set speed is maintained as viscosity changes
- Automatic overload protection

- Speed: 40-2002rpm
- Volume Maximum: 25L (6.5 US Gallons)
- Viscosity Maximum: 15 000 mPa*s (15 000 cps)
- Torque Maximum: 70 Ncm (6 in-lbs = 100"- oz)
- Output Power: 40 Watts (1/18 Hp)
- Speed Display: Yes
- Speed Accuracy: +/- 1rpm
- Torque Display: No
- Zero Torque: No
- Timer: No
- Through Shaft: Yes
- Chuck Maximum Shaft Diameter: 9.5mm (3/8")
- Chuck Guard: Available
- Rotation Direction: Clockwise only
- Housing: Epoxy-coated zinc
- Weight: Power Supply: 0.5 kg (1 lb), Stirrer: 3.0 kg (7 lb)
- IP Rating: IP42
- Voltage: 120V / 230V
- Frequency: 50/60 Hz
- Ambient Temp Operation: 5-40°C (41-104°F)
- Relative Humidity Operation: 80%
- Approvals: Certified to applicable UL and CSA standards
- Warranty: 3 years

Part No.	Description	Qty	List
M400-004	Stirrer	1/ea	\$1342.84

*Optional Accessories Include:
Stands, Clamps,
Impellers, Shafts
and more...*



Light Duty Overhead Mixer

Talboys S720-000 Overhead Mixer is a general purpose, economical and durable mixer with speeds up to 7500 rpm. Mixer is ideal for low viscosity mixing. The model 101 overhead mixer offers low torque for general purpose mixing and has a continuous duty rating. Overhead mixer includes a collet chuck and 8-inch mounting rod with carriage bolt and wrench for mounting motor to support stands. An additional clamp (S720-230 or S720-007) is required to attach the motor's mounting rod to a support stand. Support stands and holders are sold separately. Overhead mixers include a 5 year, industry leading limited warranty on parts and labor.

- Top mounted Basic Speed Control
- Compact and economical for light duty mixing
- Offers a single shaft, direct drive motor
- Mixes up to five gallons of water
- 5 year industry leading warranty

Frequency:	50 / 60 Hz
Voltage / Amps:	120V / 0.33A
Speed Control:	Electronic
Number of Output Shafts:	1
Speed Range - Direct Drive:	500 to 7500rpm
Torque - Direct Drive:	0.15"-lb
Shaft Size:	1/4" (6.4mm)
Chuck Type:	Collet, Model 192
Dimensions:	5 x 4.5 x 8" (12.7 x 11.4 x 20.3cm)
Origin:	Manufactured in the USA
Warranty:	5 year industry leading limited warranty on parts and labor



Part No.	Description	Qty	List
S720-000	Light Duty Mixer	1/ea	\$515.72

Crossover Batch Mixer

Unique batch mixer for lab, pilot scale and small production. Power, control and features including touch screen, data logging, PC or PLC control, timers, alarms, through shaft and more.

The robust 1/2 horsepower motor, PC/PLC communications and extensive features make the Caframo Crossover unparalleled in the market. Mixing up to 200 liters (55 gallons) of basic pre-mix, industrial pilot plant volumes or full production batches, this portable mixer weighs only 12kg (26.5lb). The resistive touch screen enables simple feature operation (timers, alarms, rotation direction, resume on power up, start & stop) without removing your gloves! Control the mixer with a PC or PLC via USB, RS232 or 4-20 mA or data log speed and torque directly to a memory stick. Install immediately with standard 120V cord set and four bolt mounting. Optional plate or C-clamp set attaches the Crossover to a stand, drum or customer mount and allows optimal shaft angle in vessel. Includes chuck, chuck key, chuck shaft guard, installed screen protector, USB memory stick, mounting bolts, power cord, manual, calibration certificate and three year warranty.

Speed:	50-1500rpm
Volume Maximum:	200L (55 US Gallons)
Viscosity Maximum:	180 000 mPa·s (180 000 cP)
Torque Maximum:	3000 Ncm (264 in-lbs = 4248 in-oz)
Output Power:	300 Watts (1/2 hp)
Speed Display:	Yes
Speed - Low / High Range:	50-299rpm / 300-1500rpm
Speed Accuracy:	Rolling average of 10 second period
Torque Display:	Yes
Zero Torque:	Yes
Timer / Alarm:	Yes
Connectivity Ports Standard:	USB A, Mini USB B, DB9, 4-20 mA
Through Shaft:	Yes
Chuck Maximum Shaft Diameter:	15.9mm (5/8")
Chuck and Shaft Guard:	Yes
Rotation Direction:	Clockwise and Counterclockwise
Housing:	Flame Retardant Nylon 6
Voltage / Frequency:	120V / 60Hz
Ambient Temperature Operation:	5-40°C (41-104°F)
Relative Humidity Operation:	80%
Approvals - North America	CAN/CSA 61010-1 & 61010-2-51 3rd Ed., UL 61010-1 3rd Ed.



Part No.	Description	Qty	List
M400-074	Crossover Drum Mixer	1/ea	\$5187.00

PUMPS

Direct-Drive Rotary Vane Laboratory Vacuum Pump

Achieve vacuum levels down to 1×10^{-4} torr (0.1 micron) with flows up to 11.3 CFM. These compact, portable oil-seal pumps are recommended for a variety of laboratory applications. Vacuum system configuration with a cold trap is recommended for use with harsh chemicals. Direct drive pumps are not recommended for filtration, aspiration, drying electrophoresis gels or other applications requiring sustained operation above 30 torr.

Deep Vacuum

Portable with small footprint

Vacuum to 1×10^{-4} torr

Applications: Centrifugal Concentrators, Vacuum Ovens, Freeze Dryers, SEM's, Annular Spaces / Transfer Lines

Free Air Displacement @ 60Hz: 1.8 cfm (51 l/min.)

Free Air Displacement @ 50Hz: 2.6 m³/hr (43 l/min.)

Ultimate Pressure: 2×10^{-3} (0.0027)

Sound Level: 52

Pump RPM: 3450

Oil Capacity: 0.42 (0.4)

Motor Horsepower (watts): 1/4 (190)

Tubing Needed: 3/16, 7/16 (5, 11)

Intake Thread NPT: UNIBARB (3/4-20)

Exhaust Thread NPT: 3/4/20

Overall Dimensions LxWxH: 14.5 x 5.1 x 8.4" (36.8 x 13 x 21.3cm)

Ship Weight: 33 (15)

Shipping Carton Dims. LxWxH: 21.5 x 12.5 x 16" (54.6 x 31.8 x 40.6cm)



Part No.	Description	Qty	List
P460-232	Vacuum Pump	1/ea	\$2265.00

Direct Drive Pump

Deep Vacuum

Portable with small footprint

Vacuum to 1×10^{-4} torr

Suggested Applications: Vacuum Oven

Direct-Drive Rotary Vane Vacuum Pumps achieve vacuum levels down to 1×10^{-4} torr (0.1 micron) with flows up to 11.3 CFM. These compact, portable oil-seal pumps are recommended for a variety of laboratory applications. Vacuum system configuration with a cold trap is recommended for use with harsh chemicals. Direct drive pumps are not recommended for filtration, aspiration, drying electrophoresis gels or other applications requiring sustained operation above 30 torr.

Applications: Centrifugal Concentrators, Vacuum Ovens, Freeze Dryers, SEM's, Annular Spaces / Transfer Lines

Type: Laboratory Vacuum Pump

Free Air Displacement @ 60Hz: 2.6 cfm (73 l/min.)

Free Air Displacement @ 50Hz: 3.7 m³/hr (61 l/min.)

Ultimate Pressure: 1×10^{-4} (0.00013)

Sound Level: 50

Pump RPM: 1725

Oil Capacity: 1.0 (0.95)

Motor Horsepower (watts): 1/2 (370)

Tubing Needed: 7/16, 13/16 (11, 20)

Intake Thread NPT: UNIBARB (1 1/8-20)

Exhaust Thread NPT: 1-20

Overall Dimensions (LxWxH): 18.5 x 6.5 x 9.6" (47.1 x 16.5 x 24.3cm)

Ship Weight: 55 (25)

Shipping Carton Dims. LxWxH: 24 x 15.8 x 14" (61 x 40.1 x 35cm)



Part No.	Description	Qty	List
P460-237	Laboratory Vacuum Pump	1/ea	\$2765.00

Fox Offers a Large Variety of Pumps to Meet
All of Your Laboratory Needs.



High Vacuum Pump

Our reliable, rotary vane type, low cost two-stage high vacuum pump operates quietly. All pumps are also available in 220V, call us for details.

Free Air Displacement: 85 liters per minute (3 Cu.ft. per Minute)
 Ultimate Vacuum: 25 microns/laboratory conditions
 Pump Speed: 1725 RPM
 Motor: 1/2 HP 110V, 60Hz
 Oil Capacity: 27oz. (785cc)
 Operating Temperature: 30°F to 170°F
 Intake Port: 3/8" OD for 3/8" ID Tubing
 Weight: 30 lbs.
 Dimensions (H x L x W): 11 x 14 x 5 1/4" (27.5 x 35 x 12.5cm)

The Lav-3 model is also available with a 2.5" dial, 0 to -30" hg bourdon type steel-case vacuum gauge securely mounted to the intake.



Part No.	Description	Qty	List
P333-013	Laboratory Vacuum Pump	1/ea	\$1036.52

The Versatile LD Class Pump

Consists of dual-headed, positive displacement piston pumps, delivering unmatched performance for analytical, flash and small-scale preparative chromatography applications. With the patented SSI low dead-volume Pulse Dampener, advanced cam technology and dual piston mechanism, the LD Class provides virtually pulse-free operation. The pumps are designed for high flow rate accuracy and low pulsation required for Analytical Liquid Chromatography (HPLC). Standard fluid path materials are Stainless Steel and PEEK, in addition to optional Titanium. Other available features include jacketed heads for temperature controlled processes.

With 12mL/min, 24mL/min, 36mL/min and 100mL/min versions, reaching pressures up to 10,000 psi, these pumps will meet the performance requirements of demanding HPLC needs. The high performance linear cams, along with automatic pressure compensation, provide precise flow rates for very accurate high pressure and low pressure gradients.

Standard features include an integrated Prime-Purge Valve, Pulse Dampener, interactive keypad control and complete PC control and status through RS-232 and Micro USB 2.0 ports.

The LD Class provides the precise flow and low pulsation for the most challenging separations.

Flow Rate: 12mL/min
 PSI: 5,000 PSI
 Material: S – Stainless Steel
 Self-Flush: F – Self-Flush and Piston Wash
 Pulse Dampener: T – with Pulse Dampener and Pressure & Leak Sensors
 Piston Seal: 1 – Standard Seal (Stainless Steel Energizer)
 Inlet / Outlet Tubing: C – Inlet: 1/8" OD (rigid) Outlet: 1/8" OD (rigid)
 Pump Heads: Dual



Part No.	Description	Qty	List
P928-910	LD Class Pump	1/ea	\$10702.44

MX Class 10 Pump

Class 10mL/min 5,000 psi; PEEK; Self-flush; Pulse dampener w/ Pressure sensor; Organic seal (FP); Inlet (1/8" OD flex tubing); Outlet (1/8" OD flex tubing)

The economical MX Class consists of single-headed, positive displacement piston pumps incorporating additional features for challenging applications. With pressure capability up to 5,000 psi, the MX Class can be used in both analytical and small-scale preparative HPLC separations. Further applications include demanding metering and dispensing, as well as sample injection, infusion or cone wash for mass spectrometers. Standard fluid path materials are Stainless Steel and PEEK, in addition to optional Titanium. With 10mL/min and 40mL/min versions, these pumps can tackle the majority of demanding laboratory applications. Features include available pressure monitoring with automatic pressure compensation, Pulse Dampener, integrated Prime-Purge Valve, interactive keypad control and complete PC control and status through RS-232 and Micro USB 2.0 ports. Requiring minimal bench space for the performance, the MX Class will easily integrate into most workspaces.

Flow Rate: 10mL/min
 PSI: 5,000 PSI
 Material: P – PEEK
 Self-Flush: F – Self-Flush and Piston Wash
 Pulse Dampener: T – with Pulse Dampener and Pressure & Leak Sensors
 Piston Seal: 4 – Organic Seal (Fluoropolymer Energizer)
 Inlet / Outlet Tubing: D – Inlet: 1/8" OD (flexible) Outlet: 1/8" OD (flexible)
 Pump Heads: Single



Part No.	Description	Qty	List
P929-007	MX Class 10	1/ea	\$6348.78

Pump Accessories

DuoSeal Vacuum Pump Oil, Gallon

Use this specially fractionated oil for DuoSeal belt-driven pumps to ensure the highest vacuum performance. DuoSeal Oil performs to rigid standards for vapor pressure, vacuum level stability and viscosity - the lubrication that helps enable renowned DuoSeal pump durability.



Part No.	Description	Qty	List
P460-315	Pump Oil	1/ea	\$69.50

TC-20 Tubing Cutter

- Cuts 1/16", 1/8" or 1/4" tubing with inside diameter as small as 0.008".
- Electrically operated bench-top model.
- Handy 1/16" dressing tool (included) on the swing arm removes burrs and reams tubing.
- Voltage selectable 110-120 / 220-240 volts, 50-60 Hz.*



Part No.	Description	Qty	List
P928-279	Tubing Cutter	1/ea	\$1739.02

****Other accessories and replacement parts are available.
Contact us for more information.****

REFRIGERATORS

One Door Chromatography Refrigerator

Digital LED display microprocessor temperature controller
Audible and visual Hi/Lo temperature alarm
Adjustable control range: +2°C to +10°C; factory preset at +4°C
Remote alarm contacts
Continuous product temperature display
Product sensor with glycerin bottle
Power supply switch
Exterior cabinet front, sides and back are painted white
Exterior cabinet top and bottom are galvanized steel
Interior cabinet liner is painted white
Cabinet is foamed-in-place with CFC free high density polyurethane foam insulation
Glass door(s), full size, double pane
Heavy duty door pivot hinges
Pull door handle(s), full length, painted white
Magnetic door gaskets
Centered key door lock(s) (2 keys)
Four casters (2 locking) on one and two door models, six casters (3 locking) on three door models
3 half-size solid stainless steel shelves per model
3 coated wire shelves per door section per additional door section on 2 and 3 door models
Interior LED light, switch activated
Internal electrical outlet
Two access ports 2" sleeve with cover
Air cooled condensing unit
Top mounted forced air refrigeration system
Automatic defrost and condensate evaporation
Warranties: 18 months parts and labor, 5 year compressor (US and Canada), 18 months parts (International)
UL, C-UL listed

Specifications:

Interior H x W x D: 59 x 23-1/2 x 30"
Overall H x W x D: 79-5/8 x 27-1/2 x 35-1/2"
Gross Cubage: 24.0 Cu.Ft. (679 L)
Solid Stainless Steel Shelves halfsize: 3
Number of Casters: 4 (2 locking)
Condensing Unit Size: 1/4 HP
Refrigerant: R-134a
Voltage Description: 115/60/1
NEMA Plug Configuration: 5-15P
NEMA Receptacle: 5-15R
Total Amp Draw: 4.9

Optional Features:

Extra shelf
Stainless steel drawer (8 maximum)
Wire basket drawer (8 maximum)
Sensor access port 1" diameter
Legs in lieu of casters
Stainless steel interior
Temperature chart recorder with chart paper
4-20ma output
Export crating



Part No.	Description	Qty	List
R220-027	One Door Refrigerator	1/ea	\$7723.08



Two Door Chromatography Refrigerator

Digital LED display microprocessor temperature controller
 Audible and visual Hi/Lo temperature alarm
 Adjustable control range: +2°C to +10°C; factory preset at +4°C
 Remote alarm contacts
 Continuous product temperature display
 Product sensor with glycerin bottle
 Power supply switch
 Exterior cabinet front, sides and back are painted white
 Exterior cabinet top and bottom are galvanized steel
 Interior cabinet liner is painted white
 Cabinet is foamed-in-place with CFC free high density polyurethane foam insulation
 Glass door(s), full size, double pane
 Heavy duty door pivot hinges
 Pull door handle(s), full length, painted white
 Magnetic door gaskets
 Centered key door lock(s) (2 keys)
 Four casters (2 locking) on one and two door models, six casters (3 locking) on three door models
 3 half-size solid stainless steel shelves per model
 3 coated wire shelves per door section per additional door section on 2 and 3 door models
 Interior LED light, switch activated
 Internal electrical outlet
 Two access ports 2" sleeve with cover
 Air cooled condensing unit
 Top mounted forced air refrigeration system
 Automatic defrost and condensate evaporation
 Warranties: 18 months parts and labor, 5 year compressor (US and Canada)
 UL, C-UL listed

Specifications:

Interior H x W x D: 59 x 51 x 30"
 Overall H x W x D: 79-5/8 x 55 x 35-1/2"
 Gross Cubage: 52.0 Cu.Ft. (1472 L)
 Epoxy Coated Shelves: 3
 Solid Stainless Steel Shelves halfsize: 3
 Number of Casters: 4 (2 locking)
 Condensing Unit Size: 1/3 HP
 Refrigerant: R-134a
 Voltage Description: 115/60/1
 NEMA Plug Configuration: 5-15P
 NEMA Receptacle: 5-15R
 Total Amp Draw: 8.0

Optional Features:

Extra shelf
 Stainless steel drawer (8 maximum)
 Wire basket drawer (8 maximum)
 Sensor access port 1" diameter
 Legs in lieu of casters
 Stainless steel interior
 Temperature chart recorder with chart paper
 4-20ma output
 Export crating



Part No.	Description	Qty	List
R220-031...	Two Door Refrigerator	1/ea	\$10959.62

Three Door Chromatography Refrigerator

Digital LED display microprocessor temperature controller
 Audible and visual Hi/Lo temperature alarm
 Adjustable control range: +2°C to +10°C; factory preset at +4°C
 Remote alarm contacts
 Continuous product temperature display
 Product sensor with glycerin bottle
 Power supply switch
 Exterior cabinet front, sides and back are painted white
 Exterior cabinet top and bottom are galvanized steel
 Interior cabinet liner is painted white
 Cabinet is foamed-in-place with CFC free high density polyurethane foam insulation
 Glass door(s), full size, double pane
 Heavy duty door pivot hinges
 Pull door handle(s), full length, painted white
 Magnetic door gaskets
 Centered key door lock(s) (2 keys)
 Four casters (2 locking) on one and two door models, six casters (3 locking) on three door models
 3 half-size solid stainless steel shelves per model
 3 coated wire shelves per door section per additional door section on 2 and 3 door models
 Interior LED light, switch activated
 Internal electrical outlet
 Two access ports 2" sleeve with cover
 Air cooled condensing unit
 Top mounted forced air refrigeration system
 Automatic defrost and condensate evaporation
 Warranties: 18 months parts and labor, 5 year compressor (US and Canada)
 UL, C-UL listed

Specifications:

Interior H x W x D: 59 x 78-1/2 x 30"
 Overall H x W x D: 79-5/8 x 82-1/2 x 35-1/2"
 Gross Cubage: 80.0 Cu.Ft. (2264 L)
 Epoxy Coated Shelves: 6
 Solid Stainless Steel Shelves halfsize: 3
 Number of Casters: 6 (3 locking)
 Condensing Unit Size: 1/2 HP
 Refrigerant: R-134a
 Voltage Description: 115/60/1
 NEMA Plug Configuration: 5-15P
 NEMA Receptacle: 5-15R
 Total Amp Draw: 9.1

Optional Features:

Extra shelf
 Stainless steel drawer (8 maximum)
 Wire basket drawer (8 maximum)
 Sensor access port 1" diameter
 Legs in lieu of casters
 Stainless steel interior
 Temperature chart recorder with chart paper
 4-20ma output
 Export crating



Part No.	Description	Qty	List
R220-033...	Three Door Refrigerator	1/ea	\$14375.00

Premier™ One Solid Door Laboratory and Pharmacy Refrigerator

Digital LED display microprocessor temperature controller
 Audible and visual Hi/Lo temperature alarm
 Adjustable temperature control range: +2°C to +10°C, factory preset at +4°C
 Remote alarm contacts
 Continuous product temperature display
 Product sensor with glycerin bottle
 Power supply switch
 Exterior cabinet front, sides and back are painted white
 Exterior cabinet top and bottom are galvanized steel
 Interior cabinet liner and interior door panel are painted white
 Cabinet and solid door are foamed-in-place with CFC free high density polyurethane foam insulation
 Heavy duty solid self-closing door(s) with pivot hinges
 Full length pull door handle(s)
 Magnetic door gaskets
 Centered key door lock(s) (2 keys)
 Four casters (2 locking)
 3 coated wire shelves per door section
 Interior light, door switch activated
 Air cooled condensing unit
 Top mounted forced air refrigeration system
 Automatic defrost and condensate evaporation
 UL, C-UL listed
 Warranties: 18 month parts and labor, 5 year compressor (US and Canada)

Specifications:

Interior H x W x D: 59 x 23-1/2 x 30"
 Overall H x W x D: 79-5/8 x 27-1/2 x 34-7/8"
 Number of Shelves: 3
 Shelf Area(Sqm): 12.83 Ft²
 Number of Casters: 4
 Condensing Unit Size: 1/4 HP
 Refrigerant: R-134a
 Voltage Description: 115/60/1
 NEMA Plug Configuration: 5-15P
 NEMA Receptacle: 5-15R
 Total Amp Draw: 4.9



Optional Features:

Extra shelf
 Stainless steel drawer (8 maximum)
 Wire basket drawer (8 maximum)
 Sensor access port 1" diameter
 Access port 2" sleeve with cover
 Internal electrical outlet
 Legs in lieu of casters
 Stainless steel interior
 Stainless steel exterior
 Reverse door hinge
 Temperature chart recorder with chart paper
 4-20ma output

Part No.	Description	Qty	List
R220-075...	One Solid Door Refrigerator	1/ea	\$5351.92

Premier™ One Solid Door Laboratory and Pharmacy Refrigerator

Digital LED display microprocessor temperature controller
 Audible and visual Hi/Lo temperature alarm
 Adjustable temperature control range: +2°C to +10°C, factory preset at +4°C
 Remote alarm contacts
 Continuous product temperature display
 Product sensor with glycerin bottle
 Power supply switch
 Exterior cabinet front, sides and back are painted white
 Exterior cabinet top and bottom are galvanized steel
 Interior cabinet liner and interior door panel are painted white
 Cabinet and solid door are foamed-in-place with CFC free high density polyurethane foam insulation
 Heavy duty solid self-closing door(s) with pivot hinges
 Full length pull door handle(s)
 Magnetic door gaskets
 Centered key door lock(s) (2 keys)
 Four casters (2 locking)
 3 coated wire shelves per door section
 Interior light, door switch activated
 Air cooled condensing unit
 Top mounted forced air refrigeration system
 Automatic defrost and condensate evaporation
 UL, C-UL listed
 Warranties: 18 month parts and labor, 5 year compressor (US and Canada)

Specifications:

Interior H x W x D: 67 x 27-3/4 x 31"
 Overall H x W x D: 87-5/8 x 31-3/4 x 35-7/8"
 Number of Shelves: 3
 Shelf Area: 15.85 Ft²
 Number of Casters: 4
 Condensing Unit Size: 1/4 HP
 Refrigerant: R-134a
 Voltage Description: 115/60/1
 NEMA Plug Configuration: 5-15P
 NEMA Receptacle: 5-15R
 Total Amp Draw: 4.9



Optional Features:

Extra shelf
 Stainless steel drawer (8 maximum)
 Wire basket drawer (8 maximum)
 Sensor access port 1" diameter
 Access port 2" sleeve with cover
 Internal electrical outlet
 Legs in lieu of casters
 Stainless steel interior
 Stainless steel exterior
 Reverse door hinge
 Temperature chart recorder with chart paper
 4-20ma output
 Export crating

Part No.	Description	Qty	List
R220-079...	One Solid Door Refrigerator	1/ea	\$6609.62



Revco™ High-Performance Laboratory Refrigerators with Glass Doors

These refrigerators feature a microprocessor control system, positive airflow systems, industrial-quality cabinet construction and extra-strength refrigeration compressors that are ideal for industrial, clinical and scientific applications.

Certifications/Compliance UL and cUL listed. TUV approved. CE marked.

- Capacity: 45.8 Cu.ft.
- Door Count / Style: 2 / Sliding Glass
- Exterior Finish: High-impact powder paint coating
- Dimensions (L x W x H) Exterior: 34.5 x 56.5 x 79.1"
- Dimensions (D x W x H) Interior: 26 x 52.5 x 58"
- Plug Type: 5-20P
- Temperature Range: 1°C to 8°C
- Electrical Requirements: 115V 60Hz
- Amperage / Hertz: 15A / 60HZ
- Breaker: 20A
- Cabinet Material: Scratch-resistant painted
- Casters: 2 in. (5cm) casters (two locking, two Nonlocking), factory installed
- Chamber Material: Scratch-resistant painted
- Defrost: Automatic
- Insulation: CFC-free
- Interior Finish: High-impact powder paint coating
- Refrigerant: CFC- and HCFC-free R134A
- Shelves: 8
- Shipping Weight: 670 lb.
- Temperature Control: Microprocessor



Part No.	Description	Qty	List
C601-404.....	2 Door Refrigerator.....	1/ea	\$11782.58

Revco™ High-Performance Laboratory Refrigerators with Solid Doors

These refrigerators feature a microprocessor control system, positive airflow systems, industrial-quality cabinet construction and extra-strength refrigeration compressors.

Adjustable temperatures between 1° and 8°C (factory preset at 4°C)

Automatic defrost and condensate removal

Digital electronic technology designed to simplify operation and deliver greater accuracy

Icon-based controls

Large, easy-to-read digital display of temperature within 0.1°C

Graphic thermometer is steady green when temperature is normal, flashes top bar for over temperature and flashes bulb for under temperature

Sensor automatically initiates defrost cycle on demand, eliminating need for a defrost timer, minimizing frost build-up and optimizing coil efficiency

Audible/visual warnings for temperature deviations or power failure

Key-operated ON/OFF/ALARM ON master switch for setpoint security

Push-button alarm test and remote alarm contacts

Alarm silence, ringback and auto reset

Controller battery backup system

Alarm setpoints are preset to warn of temperature deviation at 5.5°C over temperature and 1.5°C under temperature

Positive forced-air circulation systems

Industrial-grade cabinet construction and compressors

High-density CFC-free urethane foam insulation

Self-closing, key-locked doors

Epoxy-coated, open-wire shelves adjustable in 1" (2.5cm) increments

Cold-rolled steel interior and exterior finished with high-impact powder paint coating

Interior lights with door-activated ON/OFF switch and independent switch on control panel

Adjustable leveling feet (except 4.9 cu. ft. undercounter model)

45.8 cu. ft. (1297L) units have double sliding glass doors, base-mounted controls and refrigeration systems, independent switch-activated lights and dual-wheel 2" (5cm) casters instead of leveling feet

Undercounter model has a 1" (2.5cm) dia. access port with plug



Part No.	Capacity	Voltage	Plug Type	Qty	List
C601-388.....	11.5 Cu.ft.	115V	5-15P	1/ea	\$7447.75
C601-392.....	23.3 Cu.ft.	115V	5-15P	1/ea	\$8172.38
C601-396.....	29.2 Cu.ft.	115V	5-15P	1/ea	\$9402.04
C601-406.....	51.1 Cu.ft.	115V	5-20P	1/ea	\$12192.04
C601-410.....	78.8 Cu.ft.	115V	5-20P	1/ea	\$15541.33


General-Purpose (GP) Series Lab Refrigerators

Maintain daily lab applications with the help of Thermo Scientific™ General-Purpose (GP) Series Refrigerators, which feature digital controls and excellent temperature stability.

- Digital temperature controller with intuitive interface
- Excellent temperature stability of $\pm 3^{\circ}\text{C}$
- High-density, fluorine free insulation
- Automatic defrost
- Optional chart recorder
- High/Low temperature, visual/audio alarms
- Choice of solid or glass lockable doors (refrigerators only)
- Easily accessible contacts for backup monitoring
- Door ajar alarm (except sliding glass doors)
- Control panel with key lock
- For 115V 60Hz.
- Equipped with NEMA 5-15P line cord plug; require NEMA 5-15R receptacle.



Part No.	Capacity	Door Style	Shelves	Qty	List
C601-308	12 Cu. ft.	Glass	White - 4 Wire	1/ea	\$6237.92
C601-310	23 Cu. ft.	Glass	White - 4 Wire	1/ea	\$6093.37
C601-318	27 Cu. ft.	Glass	White - 4 Wire	1/ea	\$7250.83
C601-327	38 Cu. ft.	Sliding Glass	White - 8 Wire	1/ea	\$8700.58
C601-328	45 Cu. ft.	Sliding Glass	White - 8 Wire	1/ea	\$8991.35
C601-332	49 Cu. ft.	Glass	White - 8 Wire	1/ea	\$8700.58
C601-340	72 Cu. ft.	Glass	White - 12 Wire	1/ea	\$11894.90



Be sure to grab an ACC-SAFE enclosed chamber verification bottle thermometer for your refrigerator.

Different options available on page 278.

SIEVE SHAKERS

The Original Sonic Sifter Separator

A superior sieving instrument, the Sonic Sifter Separator is precise, versatile and ideal for laboratory, research and quality assurance applications. Specially designed 3" Diameter (76.2mm) acrylic-framed sieves and an oscillating air column allows this unit to achieve efficiencies previously seen only with wet sieving for materials in powdered, granular or pellet form and is capable of achieving separations ranging from 3 μm to 5.6mm. The Sonic Sifter is virtually maintenance free. There's no screen wear or particle attrition. Particle separations can be accomplished in less than 10 seconds under favorable conditions - cutting testing times by up to 90% over other compared methods. A vertical, oscillating column of air "tries" the particles 60 times per second and a vertical mechanical pulse shears agglomerates and reorients the particles in the air column. Special see-through acrylic-framed sieves help determine proper power level and finish point. Action can be varied for different densities and textures as the power level to separate particles is infinitely adjustable. Fine particle separation for dry sieving ranges from 3 μm to 5.6mm using six 3" (76.2mm) sonic sifter sieves or three precision electroformed nickel sieves.

- Automatic timing ensures repeatable results.
- Operating Ranges: Temperature 0° F to 120° F (-18°C to 49°C)
- Humidity any (non-condensing)
- * For optimal results, temperature and humidity should be controlled.
- Dimensions (W x D x H): 10 x 12 x 23" (25 x 31 x 61cm)
- Weight: 43 lbs (20kg)
- Built-in digital timer : (+/-) 2 seconds/24 hours
- Warranty: Limited one-year warranty.



Part No.	Description	Qty	List
S420-760	Sonic Sifter Separator	1/ea	\$9100.07



DuraTap™

Built to Take a Beating. Answering the call for a heavy-duty vibrating industrial sieve shaker, Advantech proudly offers the DuraTap™. With your requirements and budget in mind, our 8" and 12" sieve shaker units are designed to succeed where others fail. Gone are the days of needing to buy "accessory packs" of repair parts for expected breakdowns like other sieve shakers require. The DuraTap™ doesn't use typical plastic and wear-surface parts. This industrial-strength sieve shaker is engineered with rugged steel and alloy materials ready to withstand the everyday, harsh duty cycles. Grease fittings are provided to ensure longer life for your bearings. Each sieve shaker is "burned in" by continuously running it for over 4 hours, guaranteeing performance right out of the box.

Vertically mounted enclosed 1/4 hp electric motor

Built-in digital timer (+/- 2 seconds over 24 hours)

Warranty Limited one-year warranty

Product specifications are subject to change without notice.

Capacity:

8" Diameter (203.2mm) or (200mm)

Sieves: Seven (7) full height sieves, plus one pan and cover

Fourteen (14) half height sieves, plus one pan and cover

12" Diameter (304.8mm) or (300mm)

Sieves: Four (4) full height sieves, plus one pan and cover

Six (6) intermediate height sieves, plus one pan and cover

Seven (7) half height sieves, plus one pan and cover

Sieves, Pans and Covers must be ordered separately.

Dimensions (W x D x H): 28 x 21 x 25" (71.1 x 53.3 x 63.5cm)

Weight: 225 lb (102kg) gross 200 lb (91kg) net



Part No.	Description	Qty	List
S420-752	12" Duratap™ Sieve Shaker	1/ea	\$4606.96
S420-753	8" Duratap™ Sieve Shaker	1/ea	\$4085.22



Sieves
are available in 8in & 12in.
Brass/Brass, Brass/Stainless & Stainless/Stainless,
Full Height/Half Height Available.

Sieve Accessories

Mini-Sieve Micro Sieve Set; 8 Assorted Mesh Inserts, Plastic

For Handheld Use in Lab or Field

This micro sieve set consists of a stack of four interchangeable, polypropylene screen holding sections, a catch pan, a cover and four screen retaining rings.

- Sections are friction-fit; easy to assemble and take apart for sample retrieval
- Sorting parameters can be changed by exchanging the removable phosphor-bronze mesh inserts; eight included, one each: 25, 35, 45, 60, 80, 120, 170 and 230 standard mesh
- Each holding section is 56mm (2¼") I.D. x 41mm (1½") high; holds approx. 60cc.
- Dimensions of the assembled set with pan and cover: 21.6cm (8½") high x 7.2cm (2¼") maximum diameter
- Additional mesh inserts include pack of 8 Phosphor-Bronze screen inserts, 1 each of 25, 35, 45, 60, 80, 120, 170 and 230 standard mesh



Part No.	Description	Qty	List
M441-220	Mini-Sieve™ Micro Sieve Set	1/pk	\$248.33

Mini-Sieve Micro Sieve Mesh Insert, Assorted

For Handheld Use in Lab or Field

This micro sieve set consists of a stack of four interchangeable, polypropylene screen holding sections, a catch pan, a cover and four screen retaining rings.

- Sections are friction-fit; easy to assemble and take apart for sample retrieval
- Sorting parameters can be changed by exchanging the removable phosphor-bronze mesh inserts; eight included, one each: 25, 35, 45, 60, 80, 120, 170 and 230 standard mesh
- Each holding section is 56mm (2¼") I.D. x 41mm (1⅝") high; holds approx. 60cc.
- Dimensions of the assembled set with pan and cover: 21.6cm (8½") high x 7.2cm (2⅞") maximum diameter
- Additional mesh inserts include pack of 8 Phosphor-Bronze screen inserts, 1 each of 25, 35, 45, 60, 80, 120, 170 and 230 standard mesh



Part No.	Description	Qty	List
M441-221	Additional Mesh Inserts	8/pk	\$184.43

Mesh Size Chart

* Mesh numbers in parentheses are too small to exist as actual screen sizes. They are only estimations and are included for reference. What does mesh size mean? Determining mesh is very simple. Simply count how many openings there are in one inch of screen. The number of openings is the mesh size. An 80-mesh screen means there are 80 openings across one linear inch of screen. A 140-mesh screen has 140 openings and so on. Therefore, as the mesh number increases, the size of the openings decreases. Note - Mesh size is not a precise measurement of particle size because of the size of the wire used in the screen. Beyond 400 mesh, particle size is normally defined only in "microns." That is because the finer the weave, the closer the wires get together; eventually there is no space between them.

What do the minus (-) and plus (+) plus signs mean when describing mesh sizes and particle distribution tests? To characterize particle size by mesh designation:

- A "+" before the mesh indicates the particles are retained by the sieve,
- A "-" before the mesh indicates the particles pass through the sieve and
- Typically, 90%+ of the particles will lie within the indicated range.

For example, if the particle size of a material is described as -10 / +30 mesh, then 90% or more of the material will pass through a 10-mesh sieve (particles smaller than 2.0mm) but will be retained by a 30-mesh sieve (particles larger than 0.595mm). If the material is described as -30 mesh, then 90% or more of the material will pass through a 30-mesh sieve (particles smaller than 0.595mm).

Mesh	Microns	Inches	mm
3	6730	0.265	6.73
4	4760	0.187	4.76
5	4000	0.157	4
6	3360	0.132	3.36
7	2830	0.111	2.83
8	2380	0.0937	2.38
10	2000	0.0787	2
12	1680	0.0661	1.68
14	1410	0.0555	1.41
16	1190	0.0469	1.19
18	1000	0.0394	1
20	841	0.0331	0.841
25	707	0.028	0.707
28	700	0.028	0.7
30	595	0.0232	.0595
35	500	0.0197	0.5
40	420	0.0165	0.42
45	354	0.0138	0.354
50	297	0.0117	0.297
60	250	0.0098	0.25
70	210	0.0083	0.21
80	177	0.007	0.177
100	149	0.0059	0.149

Mesh	Microns	Inches	mm
120	125	0.0049	0.125
140	105	0.0041	0.105
100	0.00394	0.1	Beach Sand (100-2,000 microns)
170	88	0.0035	0.088
200	74	0.0029	0.074
70	0.00276	0.07	Brown
230	63	0.0024	0.063
55	0.0027		Green
270	53		0.053
50	0.00197		Remove Visible Particles from Liquid
325	44		0.044
40	0.00157		Purple
400	37		0.037
(550)*	25		0.025
-625	20		0.02
-1200	12		0.012
-1250	10		0.01
7	0.007		Red Blood Cells (8-12 microns)
-2500	0.000197		0.0058
-4800	0.000118		0.003
-5000	0.000099		0.0025
-12000	0.0000394		0.001



FILTRATION

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With such a wide selection of products from multiple manufacturers, not all options are listed here. If you do not see a product which meets the specifications you need, please feel free to contact us.

ANALYTICAL FILTERS

Sugar Testing Filter Paper

Well suited for general laboratory methods and qualitative analysis.

Retention in μm :	40
Filtration Speed (Herzberg sec/100mls):	19
Filtration Speed (Rapidly mls/min):	360
Wet Burst Inches:	70
Loading Capacity:	Very High



Part No.	Description	Qty	List
F260-537	4.25cm	50/pk	\$7.91
F260-538	4.7cm	50/pk	\$7.91
F260-539	5.5cm	50/pk	\$8.40
F260-540	7.0cm	50/pk	\$8.40
F260-541	9.0cm	50/pk	\$9.48

Part No.	Description	Qty	List
F260-542	11.0cm	50/pk	\$17.05
F260-543	12.5cm	50/pk	\$12.52
F260-544	15.0cm	50/pk	\$24.22
F260-545	18.5cm	1000/pk	\$33.12

Analytical Filter Papers - Pleated - Medium

These analytical filter papers have standard pleating that meets your needs. Pleating improves the effective surface area increasing filtration time.

Qualitative analysis
Low ash content 0.06%
Untreated
Consistent performance

Retention in μm :	4
Filtration Speed (Herzberg sec/100mls):	98
Filtration Speed (Rapidly mls/min):	70
Loading Capacity:	Medium

Retention in μm :	28
Filtration Speed (Herzberg sec/100mls):	26
Filtration Speed (Rapidly mls/min):	265
Loading Capacity:	Medium

Part No.	Description	Qty	List
F260-287	12.5cm	100/pk	\$87.23
F260-288	15.0cm	100/pk	\$90.67
F260-289	18.5cm	100/pk	\$102.75
F260-290	24.0cm	100/pk	\$148.30
F260-291	32.0cm	100/pk	\$174.21
F260-292	38.5cm	100/pk	\$183.48

Part No.	Description	Qty	List
F260-282	12.5cm	100/pk	\$88.96
F260-283	18.5cm	100/pk	\$100.78
F260-284	24.0cm	100/pk	\$117.85
F260-285	32.0cm	100/pk	\$261.39
F260-286	38.5cm	100/pk	\$199.22

Analytical Filter Papers - Pleated - High

These analytical filter papers have standard pleating that meets your needs. Pleating improves the effective surface area increasing filtration time.

Qualitative analysis
Low ash content 0.06%
Untreated
Consistent performance

Retention in μm :	25
Filtration Speed (Herzberg sec/100mls):	29
Filtration Speed (Rapidly mls/min):	235
Loading Capacity:	High

Retention in μm :	27
Filtration Speed (Herzberg sec/100mls):	28
Filtration Speed (Rapidly mls/min):	245
Loading Capacity:	High

Part No.	Description	Qty	List
F260-299	12.5cm	100/pk	\$88.12
F260-300	15.0cm	100/pk	\$91.33
F260-301	18.5cm	100/pk	\$99.76
F260-302	24.0cm	100/pk	\$116.85
F260-303	32.0cm	100/pk	\$243.83
F260-304	38.5cm	100/pk	\$178.40

Part No.	Description	Qty	List
F251-012	12.5cm	100/pk	\$137.83
F251-015	15.0cm	100/pk	\$139.54
F251-018	18.5cm	100/pk	\$145.26
F251-024	24.0cm	100/pk	\$181.77
F251-032	32.0cm	100/pk	\$171.35
F251-038	38.0cm	100/pk	\$208.83



BOTTLE TOP FILTERS

Autofil® Vacuum Filtration System

Disposable, sterile, vacuum operated unit used for the preparation of buffers, tissue culture media, microbiological media and other biological fluids. Utilizing the hardware avoids potential contamination by eliminating any unnecessary fluid transfer to the media bottle post-sterilization and reduces the risk of spills.

The complete system includes a SECUREgrasp® media bottle attached to the filter. Autofil® is also available as a funnel only bottle-top filter. Both options have an upper filter funnel with dust cap that contains a 0.1µm (mycoplasma filtering grade), 0.2µm (sterilization grade), or 0.45µm (clarification grade) asymmetric PES membrane. Our membrane is low protein binding and surfactant free.

Full Assembly

Part No.	Volume	Membrane	Filter Dia.	Qty	List
C500-053	15mL	0.1µm PES	n/a	24/cs	\$273.95
C500-054	50mL	0.1µm PES	n/a	24/cs	\$247.40
C500-025	250mL	0.1µm PES	66mm	12/cs	\$175.28
C500-027	500mL	0.1µm PES	90mm	12/cs	\$221.85
C500-029	1000mL	0.1µm PES	90mm	12/cs	\$227.53
C500-045	15mL	0.2µm PES	n/a	24/cs	\$210.15
C500-043	50mL	0.2µm PES	n/a	24/cs	\$210.15
C500-000	250mL	0.2µm PES	66mm	12/cs	\$114.25
C500-001	500mL	0.2µm PES	90mm	12/cs	\$159.93
C500-002	1000mL	0.2µm PES	90mm	12/cs	\$213.75
C500-046	15mL	0.45µm PES	n/a	24/cs	\$210.15
C500-044	50mL	0.45µm PES	n/a	24/cs	\$210.15
C500-008	250mL	0.45µm PES	66mm	12/cs	\$115.35
C500-009	500mL	0.45µm PES	90mm	12/cs	\$143.18
C500-010	1000mL	0.45µm PES	90mm	12/cs	\$209.35



Funnel Only

Part No.	Volume	Membrane	Filter Dia.	Qty	List
C500-047	15mL	0.1µm PES	n/a	48/cs	\$429.13
C500-050	50mL	0.1µm PES	n/a	48/cs	\$413.95
C500-014	250mL	0.1µm PES	66mm	24/cs	\$264.68
C500-017	500mL	0.1µm PES	90mm	24/cs	\$319.68
C500-020	1000mL	0.1µm PES	90mm	24/cs	\$366.83
C500-048	15mL	0.2µm PES	n/a	48/cs	\$417.48
C500-051	50mL	0.2µm PES	n/a	48/cs	\$404.85
C500-011	250mL	0.2µm PES	66mm	24/cs	\$178.28
C500-012	500mL	0.2µm PES	90mm	24/cs	\$208.30
C500-013	1000mL	0.2µm PES	90mm	24/cs	\$332.10
C500-049	15mL	0.45µm PES	n/a	48/cs	\$417.48
C500-052	50mL	0.45µm PES	n/a	48/cs	\$404.85
C500-016	250mL	0.45µm PES	66mm	24/cs	\$178.28
C500-019	500mL	0.45µm PES	90mm	24/cs	\$208.30
C500-022	1000mL	0.45µm PES	90mm	24/cs	\$332.12



Autofil® Hardware Accessories

Autofil® Bottle Top Vacuum Filtration Cradle Ring & Pedestal

These two filtering options offer a permanent vacuum hose connection and minimize set-up time. The vacuum hose connects to the back of the pedestal or cradle ring and enables adjustable flow control using the on/off switch. This patented docking system is made from stainless steel.

- Allows for hands-free filtration
- Provides on/off vacuum flow control
- Permanent hose connection to minimize set-up time
- Works in conjunction with Autofil® system in 15mL, 50mL, 250mL, 500mL and 1000mL



Part No.	Description	Qty	List
C500-007	Cradle Ring	1/ea	\$277.95
C500-006	Pedestal	1/ea	\$762.45

Autofil® Centrifuge Tube Stand

Centrifuge Tube Stands are intended for use with centrifuge tubes. They are made from Class VI, FDA Grade, BPA-Free Polystyrene and are conveniently sold in packs of 5.

- Autofil tube stand can hold one 15mL or 50mL tube.
- Can also be used with the Autofil Centrifuge Filtration system.

Part No.	Description	Qty	List
C500-055	Centrifuge Tube Stand	1/ea	\$33.75



EZFlow® Glass Fiber Membrane Disc Filters

Constructed from borosilicate glass without binders. These glass fiber filters feature a stable solid handling capacity and may be used as a pre-filter for intensely contaminated solution samples. Our glass fiber membrane disc filters have high flow rates, wet strength and are available in a 1.00µm pore size.

Part No.	Filter Diam.	Filter Pore Size	Qty	List
C500-389	90mm	1.0µm	25/pk	\$43.50
C500-390	90mm	1.0µm	50/pk	\$77.98
C500-391	90mm	1.0µm	100/pk	\$148.48



EXTRACTION THIMBLES

FOXBRAND® Extraction Thimbles

Cellulose thimbles are high quality sample reservoirs for quality control, research and analytical applications, where solvent extraction of solids and semi-solids must be carried out. The use of a Soxhlet extractor provides a safe method of extraction with toxic and other noxious solvents. High purity cellulose extraction thimbles are recommended for applications, including:

- Determination of fats in food
- Vitamin A and carotene extractions
- Polymer determination in the polymer industry
- Analysis of lacquer and binder in paints
- Extraction of organic compounds from reaction mixtures
- Quality management of components

Micro-glass fiber thimbles are a convenient tool for the separation of aerosol droplets and condensate from gases for applications, including:

- Sampling dust particles and aerosols from gaseous streams
- Soxhlet extractions requiring solvents too aggressive for cellulose thimbles

Micro-quartz fiber thimbles meet the highest purity requirements due to the lowest possible heavy metal content. Applications include:

- Emission testing in high-temperature environments
- Testing acidic gases not compatible with micro-glass fiber thimbles

Inner Diameter:	+0 / -3mm
Thimble Ext. Length:	±1
Wall Thickness:	1.5 ± 0.5
Ash Content %:	< 0.1
Penetration % DOP (0.3µm):	N/A
Temperature Resistance °C:	N/A



Cellulose

Part No.	Description	Qty	List
F450-009	25 x 80mm	25/pk	\$175.35
F450-017	33 x 80mm	25/pk	\$205.44
F450-018	33 x 94mm	25/pk	\$204.44

High Purity Extraction Thimble - Cellulose

High purity, seamless filters with a characteristic thimble shape. Applications include analysis of fats, oils, grease, pesticides, pollutants, other organics and additives in plastics and rubber materials. Suitable for soxhlet extractions of organic components and dust sampling.

Lipid content:	<0.1% by weight
Nominal Rating (µm):	8
Thickness:	1.5mm
Weight (g per 25x90 thimble):	3.6
Pressure drop (mm H2O/ 5cm/sec):	25
Collection Efficiency (% 0.3µm DOP):	89
Max Operating Temp (°C):	120



Part No.	Description	Qty	List
F220-959	25 x 80mm	25/pk	\$87.24
F220-967	33 x 80mm	25/pk	\$101.38

Standard Cellulose Extraction Thimble for DIONEX ASE Extraction Cell

Part No.	Description	Qty	List
F100-275	11mL	25/pk	\$153.70
F100-276	22mL	25/pk	\$153.70



Standard Cellulose Extraction Thimbles

603 Standard Cellulose Extraction Thimbles made from high-quality cellulose available in a range of sizes and suitable for use in thimble holders and automated extraction apparatus to ensure optimal fit.



Part No.	Description	Length x i.d.	Thickness	Qty	List
F100-277	Grade 603	80 x 22mm	1.5mm	25/pk	\$140.72
F100-278	Grade 603	60 x 25mm	1.5mm	25/pk	\$135.86
F100-279	Grade 603	80 x 25mm	1.5mm	25/pk	\$135.86
F100-280	Grade 603	100 x 25mm	1.5mm	25/pk	\$140.72
F100-281	Grade 603	60 x 26mm	1.5mm	25/pk	\$135.86
F100-282	Grade 603	80 x 27mm	1.5mm	25/pk	\$135.86
F100-283	Grade 603	60 x 28mm	1.5mm	25/pk	\$135.86
F100-284	Grade 603	80 x 28mm	1.5mm	25/pk	\$135.86
F100-285	Grade 603	100 x 28mm	1.5mm	25/pk	\$135.86
F100-286	Grade 603	80 x 30mm	1.5mm	25/pk	\$135.86
F100-287	Grade 603	100 x 30mm	1.5mm	25/pk	\$159.48
F100-288	Grade 603	60 x 33mm	1.5mm	25/pk	\$135.86
F100-289	Grade 603	80 x 33mm	1.5mm	25/pk	\$140.72
F100-290	Grade 603	90 x 33mm	1.5mm	25/pk	\$165.74
F100-291	Grade 603	94 x 33mm	1.5mm	25/pk	\$165.74
F100-292	Grade 603	100 x 33mm	1.5mm	25/pk	\$165.74
F100-293	Grade 603	118 x 33mm	1.5mm	25/pk	\$198.58
F100-294	Grade 603	130 x 33mm	1.5mm	25/pk	\$198.58
F100-295	Grade 603	205 x 33mm	1.5mm	25/pk	\$267.36
F100-296	Grade 603	130 x 34mm	1.5mm	25/pk	\$198.58
F100-297	Grade 603	150 x 35mm	1.5mm	25/pk	\$236.08
F100-298	Grade 603	85 x 40mm	1.5mm	25/pk	\$203.28
F100-299	Grade 603	123 x 41mm	1.5mm	25/pk	\$232.96
F100-300	Grade 603	145 x 48mm	2.0mm	25/pk	\$302.32
F100-301	Grade 603	200 x 48mm	2.0mm	25/pk	\$350.52
F100-302	Grade 603	230 x 44mm	2.0mm	25/pk	\$354.90
F100-303	Grade 603	250 x 75mm	2.5mm	25/pk	\$473.20
F100-304	Grade 603	60 x 22mm	2.0mm	25/pk	\$203.20
F100-305	Grade 603	250 x 80mm	3.0mm	25/pk	\$473.20
F100-306	Grade 603T	33 x 31 x 80mm	1.0mm	25/pk	CALL



Whatman High Performance Cellulose Extraction Thimbles

GE's Whatman cellulose thimbles are manufactured from high-quality alpha cellulose cotton linter for high-performance use in automated Soxhlet extractor systems. Used in air and waste gas analysis.



Part No.	Description	Length x i.d.	Wall Thickness	Qty	List
F101-238	single 1mm wall	50 x 10mm	1mm	25/pk	\$148.86
F101-239	single 1mm wall	55 x 18mm	1mm	25/pk	\$148.86
F101-240	single 1mm wall	90 x 19mm	1mm	25/pk	\$148.86
F101-241	single 1mm wall	65 x 22mm	1mm	25/pk	\$148.86
F101-242	single 1mm wall	80 x 22mm	1mm	25/pk	\$156.36
F101-243	single 1mm wall	100 x 25mm	1mm	25/pk	\$156.36
F101-244	single 1mm wall	80 x 25mm	1mm	25/pk	\$156.36
F101-245	single 1mm wall	90 x 25mm	1mm	25/pk	\$156.36
F101-246	single 1mm wall	100 x 26mm	1mm	25/pk	\$156.36
F101-247	single 1mm wall	60 x 26mm	1mm	25/pk	\$168.86
F101-248	single 1mm wall	100 x 28mm	1mm	25/pk	\$165.74
F101-249	single 1mm wall	120 x 28mm	1mm	25/pk	\$165.74
F101-250	single 1mm wall	80 x 28mm	1mm	25/pk	\$168.86
F101-251	single 1mm wall	100 x 30mm	1mm	25/pk	\$168.86
F101-252	single 1mm wall	80 x 30mm	1mm	25/pk	\$192.32
F101-253	single 1mm wall	100 x 33mm	1mm	25/pk	\$192.32
F101-254	single 1mm wall	118 x 33mm	1mm	25/pk	\$192.32
F101-255	single 1mm wall	80 x 33mm	1mm	25/pk	\$192.32
F101-256	single 1mm wall	94 x 33mm	1mm	25/pk	\$192.32
F101-257	single 1mm wall	130 x 37mm	1mm	25/pk	\$228.26
F101-258	single 1mm wall	123 x 41mm	1mm	25/pk	\$245.46
F101-259	single 1mm wall	123 x 43mm	1mm	25/pk	\$259.54
F101-260	single 1.5mm wall	180 x 60mm	1.5mm	25/pk	\$479.08
F101-267	double 2mm wall	60 x 16mm	2mm	25/pk	\$204.82
F101-268	double 2mm wall	80 x 22mm	2mm	25/pk	\$204.82
F101-269	double 2mm wall	80 x 25mm	2mm	25/pk	\$134.28
F101-270	double 2mm wall	60 x 26mm	2mm	25/pk	\$222.02
F101-271	double 2mm wall	80 x 33mm	2mm	25/pk	\$272.04
F101-272	double 2mm wall	94 x 33mm	2mm	25/pk	\$272.04
F101-273	double 2mm wall	123 x 43mm	2mm	25/pk	\$357.82



GLASS FIBER FILTRATION

FOX Brand Glass Fiber Filter

This popular grade offers finer particle retention and higher flow rate than traditional analytical filter papers. It is used in the general laboratory applications, cell harvesting, liquid scintillation counting and in the monitoring of air and water pollution. It is generally recommended for water pollution monitoring techniques for total suspended solids.

Laboratory Analysis	100% pure borosilicate glass
Rapid flow rate	Fine particle retention 0.7µm – 3.1µm
High loading capacity	Chemical & Thermal resistance (up to 500°C)
Long Shelf life	White color reflecting 96% of visible light
Retention in µm:	1.1
Filtration speed Herzburg sec/100mls:	68
Filtration speed Rapidity mls/min:	100
Loading Capacity:	Very High



Part No.	Description	Qty	List
F301-002	2.10cm	100/pk	\$33.96
F301-004	2.50cm	100/pk	\$34.85
F301-013	4.25cm	100/pk	\$46.06
F301-015	4.70cm	100/pk	\$49.45

Part No.	Description	Qty	List
F301-018	5.50cm	100/pk	\$33.96
F301-019	7.00cm	100/pk	\$34.86
F301-023	9.00cm	100/pk	\$46.06
F301-031	12.50cm	100/pk	\$49.45

Whatman Grade 934-AH Glass Microfiber Filters, Binder Free

Whatman Grade 934-AH borosilicate glass microfiber filters from GE are smooth water quality filters with high retention efficiency. Grade 934-AH filters are often used in total suspended solids analysis.

Smooth surface for efficient precipitate recovery	Nominal particle retention of 1.5µm
Can withstand temperatures up to 550°C	Grade 934-AH Filter for Total Suspended Solids Analysis



Part No.	Description	Qty	List
F101-056	47mm circle; Ø 47mm	100/pk	\$66.50
F101-061	90mm circle; Ø 90mm	100/pk	\$145.46
F101-063	110mm circle; Ø 110mm	100/pk	\$163.46

Whatman Grade 934-AH RTU Glass Microfiber Filters, Ready to Use

Whatman Grade 934-AH ready-to-use (RTU) filters are the time-saving version of GE's 934-AH filters, which are widely used for total suspended solids analysis.

Fine particle retention of 1.5µm at high flow rates. Able to process heavy, turbid samples. Prewashed, preweighed RTU filters eliminate pretreating steps otherwise required by Standard Method 2540D Grade 934-AH RTU Filter for Total Suspended Solids Analysis



Part No.	Description	Qty	List
F101-683	42.5mm	100/pk	\$157.78
F101-684	47mm	100/pk	\$145.42
F101-685	55mm	100/pk	\$145.42
F101-686	90mm	100/pk	\$216.38

Whatman Multigrade 150 Glass Fiber Filters

GE's Whatman GMF 150 prefilters are multilayer graded density filters for rapid and efficient filtration of samples with high solids content.

Compared to an unprotected membrane, greater sample volume can be filtered. Higher particulate loading capacity and faster flow rates than uniform prefilters. Excellent particle retention (both large and small particles). 100% borosilicate glass, binder-free. Multilayer filter design.

When a sample is applied, the multigrade glass filter traps larger particles in its pores or on the surface of the coarse layer, medium-sized particles in the interface meshing and smaller particles in the interstices of the fine layer. The multilayer design provides comprehensive particle retention.

Extends life of final filter membrane



Part No.	Description	Diameter	Qty	List
F101-072	1µm particle retention rating, circle	47mm	40/pk	\$90.82
F101-073	1µm particle retention rating, circle	90mm	20/pk	\$90.82



MEMBRANE FILTERS

Mixed Cellulose Esters (MCE)

Composition: Mixed Cellulose Esters including cellulose nitrate & cellulose acetate, also known as nitrocellulose.

High porosity provides superior flow rates

High protein binding can be blocked by pretreatment or utilized in applications high purity: Triton-free

Autoclavable: withstands autoclaving temperatures up to 130°C without adversely affecting bubble point, flow rate or microbiological recovery.

Size: 47mm

Color / Surface: White / Plain

Rapid wetting time: <3 seconds to wet a 47mm diameter disc with aqueous 1% methylene blue.

Pore Size: 0.20µm
Bubble point¹: ≥0.37 (MPa) ≥54.5 (psi)
Flow Rate²
Water: 17.5 (mL/min/cm²)
Air: 2.4 (L/min/cm²)
Porosity³ (%): 73
Thickness (µm): 133

Pore Size: 0.45µm
Bubble point¹: ≥0.24 (MPa) ≥35.0 (psi)
Flow Rate²
Water: 45 (mL/min/cm²)
Air: 5.0 (L/min/cm²)
Porosity³ (%): 78
Thickness (µm): 145



Part No.	Description	Qty	List
F220-016	0.20µm	25/pk	\$97.98

Part No.	Description	Qty	List
F220-053	0.45µm	25/pk	\$97.98

Pore Size: 0.80µm
Bubble point: ≥0.11 (MPa) ≥16.4 (psi)
Flow Rate²
Water: 165 (mL/min/cm²)
Air: 15.0 (L/min/cm²)
Porosity (%): 80
Thickness (µm): 150



Part No.	Description	Qty	List
F220-133	0.80µm	25/pk	\$97.98

EZFlow® Hydrophobic PTFE Membrane Disc Filters

Premium quality Hydrophobic PTFE Membrane Disc Filters available in 13mm, 25mm, 47mm and 90mm that ensures to retain particles or micro-organisms by surface capture. These hydrophobic PTFE filters have polypropylene support and are offered in 0.2µm or 0.45µm pore sizes. These filters are best suited for the filtration of solvents and acids or other harsh chemicals.

Part No.	Filter Diameter	Filter Pore Size	Qty	List
C500-383	25mm	0.2µm	50/pk	\$42.55
C500-386	25mm	0.45µm	50/pk	\$42.55
C500-384	47mm	0.2µm	50/pk	\$59.78
C500-387	47mm	0.45µm	50/pk	\$59.78
C500-385	90mm	0.2µm	25/pk	\$119.28
C500-388	90mm	0.45µm	25/pk	\$132.10



EZFlow® Nylon Membrane Disc Filters

These nylon filters give excellent chemical resistance suitable for filtering more aggressive solutions such as alcohols and DMSO. All materials comply with USP Class VI Standards and FDA compliances.

Part No.	Filter Diameter	Filter Pore Size	Qty	List
C500-377	25mm	0.2µm	50/pk	\$28.65
C500-380	25mm	0.45µm	50/pk	\$28.65
C500-378	47mm	0.2µm	50/pk	\$36.65
C500-381	47mm	0.45µm	50/pk	\$34.65
C500-379	90mm	0.2µm	25/pk	\$42.23
C500-382	90mm	0.45µm	25/pk	\$42.23



 **Foxx**
Life Sciences
Our Innovation. Your Opportunity.

Whatman Sterile Cellulose Nitrate Membrane Filters

Recommended for microbiological culturing and sample preparation, GE's Whatman cellulose nitrate membrane filters offer very narrow pore size distribution and low levels of extractables. Sterile membrane filters eliminate the risk of contamination that could impact analysis. High strength and flexibility.



Part No.	Description	Diameter	Qty	List
F101-617	Circle, plain, 1µm pore size	25mm	100/pk	\$192.88
F101-618	Circle, plain, 1µm pore size	47mm	100/pk	\$284.84
F100-387	Circle, plain, 0.45µm pore size - Sterile	47mm	100/pk	\$265.22

Whatman Sterile Mixed Cellulose Ester Membranes – ME Range (ME 24) - 0.2µm

Whatman sterile MCE membrane filters from GE Healthcare's Life Sciences business are plain or gridded filters designed to support routine cell counting and particle detection.

Excellent contrast for easy particle detection.

High internal surface area for sample adsorption.

High dirt loading capacity.

Biologically inert with good thermal stability.

Uniform microporous structure delivers high flow rates.

GE's Whatman MCE membrane filters are composed of cellulose acetate and cellulose nitrate, giving the membrane a more uniform surface than pure nitrocellulose filters. Other sterile mixed cellulose ester membranes are available.



Part No.	Description	Grid Color	Diameter	Qty	List
F100-409	Plain, circle	Plain	47mm	100/pk	\$195.20
F100-410	Plain, circle	Plain	50mm	100/pk	\$198.58
F100-447	3.1mm white/black grid, circle	Black	47mm	100/pk	\$64.44
F100-448	3.1mm white/black grid, circle	Black	50mm	100/pk	\$198.58

Whatman Cellulose Acetate Membrane Filters

GE's Whatman cellulose acetate membrane filters have very low protein binding, which minimizes sample loss when filtering protein-based aqueous samples.

Minimal sample loss in protein-based samples due to low protein binding.

Pure cellulose acetate composition, minimizing sample contamination.

Hydrophilic, for use with aqueous and alcoholic media.

High solvent resistance, particularly to low molecular weight alcohols.

High physical strength and a heat resistance up to 180°C.

Can be sterilized by most common methods without sacrificing membrane integrity.

High chemical resistance membranes.

Due to their high chemical resistance, cellulose acetate membrane filters from GE Healthcare's Life Sciences business reliably prepare liquid scintillation cocktail for scintillation counter measurement. Additionally, the highly heat resistant Whatman cellulose acetate membranes can filter hot liquids and hot gases.



Part No.	Membrane Type	Sterility	Dimensions	Pore Size	Qty	List
F100-416	ST 69	Nonsterile	Ø 47mm	1.2µm	100/pk	\$236.14
F100-417	ST 68	Nonsterile	Ø 47mm	0.8µm	100/pk	\$236.14
F100-418	OE 67	Nonsterile	Ø 13mm	0.45µm	100/pk	\$141.88
F100-419	OE 67	Nonsterile	Ø 25mm	0.45µm	100/pk	\$177.20
F100-420	OE 67	Nonsterile	Ø 47mm	0.45µm	100/pk	\$234.36
F100-421	OE 67	Nonsterile	Ø 50mm	0.45µm	100/pk	\$245.16
F100-422	OE 67	Nonsterile	Ø 110mm	0.45µm	50/pk	\$563.92
F100-423	OE 67	Nonsterile	Ø 142mm	0.45µm	25/pk	\$297.94
F100-424	OE 67	Nonsterile	Ø 85mm	0.45µm	50/pk	\$423.66
F100-427	OE 66	Nonsterile	Ø 25mm	0.2µm	100/pk	\$177.20
F100-428	OE 66	Nonsterile	Ø 47mm	0.2µm	100/pk	\$236.14
F100-429	OE 66	Nonsterile	Ø 50mm	0.2µm	100/pk	\$245.16
F100-430	OE 66	Nonsterile	Ø 110mm	0.2µm	50/pk	\$563.92
F100-431	OE 66	Nonsterile	Ø 142mm	0.2µm	25/pk	\$297.94
F100-432	OE 66	Nonsterile	Ø 293mm	0.2µm	25/pk	\$722.62
F100-433	OE 66	Sterile	Ø 47mm	0.2µm	100/pk	\$266.80
F100-434	OE 66	Nonsterile	300 x 600mm	0.2µm	5/pk	\$698.52
F101-564	WCA	Nonsterile	Ø 47mm	0.2µm	100/pk	\$230.74



Cellulose Acetate - 47mm

Composition: Mixture of cellulose triacetate and diacetate

Characteristics: Low static charge and high strength

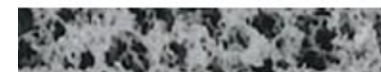
Sterilizable: May be repeatedly sterilized without loss of integrity or change in bubble point.

Clean: lowest aqueous extractibles (0.1 wt%) of all membranes.

Relative to MCE (Mixed Cellulose Ester, Nitrocellulose):

- Improved solvent resistance to low molecular weight alcohols
- Better heat resistance
- Lower protein binding

Note: Should be prewet prior to loading into a holder or autoclaving.



Pore Size:	0.20µm
Bubble Point:	≥0.25 (MPa) ≥37.1 (psi)
Flow Rate	
Water:	16 (mL/min/cm ²)
Air:	2 (L/min/cm ²)
Porosity (%):	66
Thickness (µm):	125

Pore Size:	0.45µm
Bubble Point:	≥0.17 (MPa) ≥25.9 (psi)
Flow Rate	
Water:	35 (mL/min/cm ²)
Air:	4 (L/min/cm ²)
Porosity (%):	68
Thickness (µm):	125

Part No.	Description	Qty	List
F220-209	Cellulose Acetate	100/pk	\$114.10

Part No.	Description	Qty	List
F220-221	Cellulose Acetate	100/pk	\$114.10

Pore Size:	0.80µm
Bubble Point:	≥0.068 (MPa) ≥10.0 (psi)
Flow Rate	
Water:	160 (mL/min/cm ²)
Air:	14 (L/min/cm ²)
Porosity (%):	72
Thickness (µm):	125

Pore Size:	3.00µm
Bubble Point:	≥0.034 (MPa) ≥5.0 (psi)
Flow Rate	
Water:	500 (mL/min/cm ²)
Air:	54 (L/min/cm ²)
Porosity (%):	78
Thickness (µm):	135

Part No.	Description	Qty	List
F220-238	Cellulose Acetate	100/pk	\$114.10

Part No.	Description	Qty	List
F220-247	Cellulose Acetate	100/pk	\$114.10

PAPER FILTRATION

Qualitative Paper - High

This fast filtering grade is an intermediate grade. It has a rough surface and is used for filtering aluminum, ferric and magnesium hydroxides. It is also found in general construction filtration work and in the filtration of insoluble iron and ore.

Qualitative analysis

Low ash content 0.06%

Untreated

Consistent Performance

Retention in µm: 25.0

Filtration Speed Herzberg sec/100mls: 29

Filtration Speed Rapidity mls/min: 235

Loading Capacity: High



Part No.	Description	Qty	List
F201-005	5.5cm	100/pk	\$8.10
F201-007	7.0cm	100/pk	\$8.91
F201-009	9.0cm	100/pk	\$10.04
F201-011	11.0cm	100/pk	\$11.75
F201-012	12.5cm	100/pk	\$14.79
F201-015	15.0cm	100/pk	\$17.67
F201-019	19.0cm	100/pk	\$26.52
F201-020	20.5cm	100/pk	\$26.52
F201-024	24.0cm	100/pk	\$38.00
F201-025	25.0cm	100/pk	\$38.00
F201-033	33.0cm	100/pk	\$58.84

Qualitative Paper - Medium

This is a strong filter paper with a medium flow rate and retention. It is commonly used in student laboratories. This strong general-purpose filter is also useful in Buchner funnels for barium carbonate, lead chromate and beryllium hydroxides.

Retention in μm :	6.0
Filtration Speed Herzberg sec/100mls:	114
Filtration Speed Rapidity mls/min:	60
Loading Capacity:	Medium

Part No.	Description	Qty	List
F260-394	4.25cm	100/pk	\$6.30
F260-395	4.70cm	100/pk	\$6.80
F260-396	5.50cm	100/pk	\$11.29
F260-398	7.0cm	100/pk	\$7.46
F260-400	9.0cm	100/pk	\$13.98
F260-402	11.0cm	100/pk	\$16.36
F260-403	12.5cm	100/pk	\$13.57
F260-404	15.0cm	100/pk	\$24.61
F260-405	18.5cm	100/pk	\$34.06

Part No.	Description	Qty	List
F260-406	20.5cm	100/pk	\$36.94
F260-407	24.0cm	100/pk	\$41.23
F260-409	27.0cm	100/pk	\$37.85
F260-410	32.0cm	100/pk	\$49.30
F260-412	38.5cm	100/pk	\$66.11
F260-413	40.0cm	100/pk	\$71.02
F260-414	45.0cm	100/pk	\$89.57
F260-415	50.0cm	100/pk	\$143.51

Grade 1 Qualitative Filter Papers

A widely used standard grade filter paper for routine applications with medium retention and flow rate. It covers a wide range of laboratory applications and is frequently used for clarifying liquids.

Dimensions: \varnothing 25mm



Part No.	Description	Qty	List
F100-018	Circle, 5mm	100/pk	\$12.96

Grade 4 Qualitative Filter Papers

A standard grade filter used when high flow rates in air pollution monitoring are required and the collection of fine particles is not critical.

Dimensions: \varnothing 50mm

Part No.	Description	Qty	List
F100-064	Circle, 50mm	100/pk	\$16.64

Quantitative Paper - Medium

This grade has a medium flow rate and good particle retention and is the most commonly used acid-washed filter. It covers a wide range of ashless filtration applications. It is used for gravimetric analysis of numerous components (e.g.: cements, copper, clay, bismuth, silicone and iron) found in heavy industries such as construction, mining or steel. It is also used as a high purity filter for speedy filtering of trace elements such as silver chromate, lead sulfate, zinc and ammonium hydroxides. It is also found in general soil analysis for separating solid from aqueous extracts.

Qualitative analysis

Low ash content 0.06%

Untreated

Consistent Performance

Retention in μm :	2.0	Loading Capacity:	Medium
Filtration Speed Herzberg sec/100mls:	229	Filtration Speed Rapidity mls/min:	30



Part No.	Description	Qty	List
F440-008	18.5cm	100/pk	\$104.59
F440-009	12.5cm	100/pk	\$54.40
F440-011	15.0cm	100/pk	\$78.76

Quantitative Paper - Medium

This is a fast filtering grade for rapid filtration of coarse particles and gelatinous precipitates such as iron zirconium and aluminum hydroxides and cobalt sulfides. It is also used in air pollution testing to determine gaseous compounds. It is recommended for fast analysis procedures for unstable precipitates such as silicone, which requires speedy filtration.

Quantitative analysis

Low ash content 0.007%

Acid Wash Treated

Consistent Performance

Retention in μm :	10.0	Loading Capacity:	Medium
Filtration Speed Herzberg sec/100mls:	34	Filtration Speed Rapidity mls/min:	200



Part No.	Description	Qty	List
F441-009	11.0cm	100/pk	\$54.25
F441-010	12.5cm	100/pk	\$61.14
F441-011	15.0cm	100/pk	\$107.10
F441-012	18.5cm	100/pk	\$104.45



TCLP Filters

This grade is made with acid-treated borosilicate glass microfibers, which is then acid-washed using 1N HNO₃, as described in EPA Method 1311. The filter media is thoroughly rinsed in a multi-stage process using copious amounts of high-purity deionized water. Prewashing with acid further reduces the content of metals to exceptionally low levels. This eliminates the need to acid-wash the filters in your lab, saving valuable time and reducing waste disposal and reagent costs.

TCLP test methods.

Pre-washed with acid as in EPA Method 1311.

Manufactured with lower background metal content.

High sample Loading Capacity.

Fine particle retention.

Inert, no chemical reaction with liquid sample.

Suitable for use in various standard methods.

Retention in µm:	0.7	Frazier air permeability (cfm/ft):	1.0
Filtration Speed Herzberg sec/100mls:	274	Filtration Speed Rapidity mls/min:	25
Basis Weight (g/m ²):	84	Sheet Caliper (mm):	0.44
Wet-Burst (cm):	44.5		



Part No.	Description	Qty	List
F260-009	4.7cm	100/pk	\$174.68
F260-010	9.0cm	50/pk	\$147.96
F260-011	11.0cm	50/pk	\$207.11
F260-012	12.5cm	50/pk	\$289.98
F260-013	14.2cm	50/pk	\$352.27

Whatman Quantitative Filter Papers, Ashless, Grade 40

Whatman Grade 40 high-purity filters from GE Healthcare's Life Sciences business are general-purpose papers for quantitative analysis. Grade 40 filters are suitable for a variety of analytical filtration applications.

Medium nominal particle retention rating of 8µm.

Medium filtration speed (Herzberg 340 s).

High-purity filters contain 0.007% maximum ash content.

Particularly useful for gravimetric analysis.

Grade 40 Ashless Filter Paper for Pollution Analysis.



Part No.	Description	Qty	List
F100-835	47mm Circle	100/pk	\$38.12
F100-833	32mm Circle	100/pk	\$34.58
F100-837	70mm Circle	100/pk	\$41.78
F100-838	90mm Circle	100/pk	\$58.12
F100-839	110mm Circle	100/pk	\$69.00
F100-840	125mm Circle	100/pk	\$78.16

Whatman Quantitative Filter Papers, Ashless, Grade 41

GE's Whatman Grade 41 environmental pollution papers are among the fastest filter papers in the Whatman ashless range.

This gravimetric filter is well suited for quantitative analysis of soil and air.

20µm nominal particle retention rating.

Fast filtration speed (Herzberg 54 s).

Commonly used for routine air pollution analysis and soil pollution analysis.

Extremely low ash content (0.007% ash maximum).

Dimensions: Ø 320mm



Part No.	Description	Qty	List
F100-849	47mm Circle	100/pk	\$32.66
F100-848	42.5mm Circle	100/pk	\$29.16
F100-853	70mm Circle	100/pk	\$41.78
F100-855	110mm Circle	100/pk	\$65.52
F100-856	125mm Circle	100/pk	\$76.42
F100-860	320mm Circle	100/pk	\$433.76

PRESSURE FILTRATION

Pressure type filter holders can be used for ultracleaning or sterilizing liquids and gases. Advantec holders have been designed to maximize flow rates and to minimize holder resistance and can be used in either batch or continuous filtration procedures.

Advantages of Pressure Filtration

- Higher differential pressures are possible, resulting in higher flow rates. The pressure differential across the membrane is not limited to atmospheric pressure (≥ 14.7 psi).
- Unintentional contamination downstream of the membrane is minimized
- Denaturation of proteins and other biological polymers due to foaming downstream of the membrane is avoided
- Vapor accumulation and possible explosion can be avoided using an inert gas to pressurize solvents and combustible or flammable liquids.

Stainless Steel Syringe Holders

Can be sterilized by standard procedures including autoclaving.

- Luer fittings fit typical syringes.
- Can be tightened securely, wrench set included.

Applications

- Filter or clean small volumes of liquid such as eyewash or photoresist.
- Clear turbid solutions such as serum.
- Purify virus solutions.



	KS 13	KS 25
Body and support screen	Type 304 Stainless Steel	
Gasket	PTFE	
O-ring	PTFE	
Inlet	Female Luer-Lock	
Outlet	Male Luer Slip	
Dead volume	0.2mL	0.4mL
Inlet	0.68 MPa (99 psi)	
Differential	0.29 MPa (42 psi)	
Filter size	13mm	25mm
Prefilter size	8mm	21mm
Filtration area	0.9cm ²	3.8cm ²
Diameter	16mm (0.6")	32mm (1.25")
Length	39mm (1.54")	36mm (1.42")
Weight:	0.1kg (0.25lb)	0.2kg (0.38lb)

Part No.	Description	Qty	List
F221-171	KS 13	1/ea	\$81.60
F221-176	KS 25	1/ea	\$138.96

Polypropylene In-Line & Aerosol Holders

Compatible with a wide range of chemicals and temperatures.

- Exterior locking ring design allows the unit to be assembled quickly and efficiently without tearing the membrane.

Applications

- Ultraclean and sterilize liquids.
- Aseptic sampling of liquids or gases at point-of-use.
- Environmental air sampling (PPO 47).



	PP 47	PPO 47
Body and support screen	Polypropylene	
O-rings (standard)	Silicone	Silicone/PTFE
Inlet	Combination 1/4" NPTM, Female Luer slip	Open Face
Outlet	Combination 1/4" NPTM, Female Luer slip	
Inlet (Pressure)	0.49 MPa (71 psi)	-
Differential (Pressure)	0.49 MPa (71 psi)	-
Maximum operating (liquids)	80°C (176°F)	
Autoclave	121°C (250°F), 15 psi, 20 min slow exhaust only	
Filter size	47mm	
Prefilter size	42.5mm	-
Filtration area	13.5cm ²	
Recommended volume	Up to 1 liter	-
Diameter	65mm (2.6")	
Height	50mm (2.0")	
Weight:	1.7oz (47g)	

Part No.	Description	Qty	List
F221-536	PP47	1/ea	\$38.24
F221-537	PPO47	1/ea	\$43.29



PFA In-Line Filter Holders

- Superior chemical compatibility – can be used with chemically aggressive liquids.
- Dual support screens allow for flow in either direction.
- Exterior locking ring for quick assembly without tearing the membrane.

Applications

- Sterilize and ultraclean liquids under positive pressure.
- Ideal for filtering small volumes of high purity acids, alkalis or organic solvents.

Note: PFA 47 unit has an air/bleed vent.



	PFA 25	PFA 47
Body & support screen	PFA; Locking ring on PFA 47; ETFE glass fiber filled PFA	
O-ring (standard)	Perfluoroelastomer	
Inlet	Female Luer-Lock	Combination 1/4" NPTM, 1/4" tubing adapter
Outlet	Male Luer slip	
Inlet	0.29 MPa (42 psi)	
Differential, positive or negative, at 25°C	0.29 MPa (42 psi)	
Maximum operating	121°C (250°F)	
Autoclave	121°C (250°F), 15 min	
Weight:	0.8oz (22g)	5.2oz (120g)
Diameter	32mm (1.3")	65mm (2.6")
Height	32mm (1.3")	70mm (2.8")
Filter size	25mm	47mm
Prefilter size	21mm	42.5mm
Filtration area	3.5cm ²	13.5cm ²
Pore size (PTFE membrane)	Typical methanol flow rate at 1kg/cm ² , 20°C	
0.2µm (J020)	60mL/min	400mL/min
0.5µm (J050)	150mL/min	700mL/min
1.0µm (J100)	350mL/min	1200mL/min

Part No.	Description	Qty	List
F221-538	PFA 25	1/ea	\$96.41
F221-539	PFA 47	1/ea	\$224.33

Replacement Parts & Optional O-Rings

PFA 25

Part No.	Description	Qty	List
F221-546	Locking Ring	1/ea	\$21.00
F221-412	Support Screen	1/ea	\$25.66
F221-547	Outlet	1/ea	\$25.66
F221-416	Inlet O-Ring (FRM)	1/ea	\$37.34

PFA 47

Part No.	Description	Qty	List
F221-411	Inlet/Outlet Adapter	1/ea	\$86.33
F221-410	Tubing Adapter	1/ea	\$77.00
F221-407	Vent Cap	1/ea	\$15.66
F221-406	Support Screen	1/ea	CALL
F221-408	Inlet O-Ring (FRM)	1/ea	\$5.31
F221-409	Inlet O-Ring (EPR)	1/ea	\$2.09
F221-399	Inlet O-Ring (Silicone)	1/ea	CALL

Looking for Syringe filters?

They can be found on page 131 with various membrane options.



Sanitary In-Line Stainless Steel Holders

- Sanitary inlet and outlet connections are non-threaded and can be completely disassembled for thorough cleaning
- 47mm holder features vent to allow air venting on upstream side of the membrane at any time during filtration

Applications

- Point of use filtration on sterile filling machines
- Flow decay studies for scale up to larger filtration systems
- Liquid or gas



	KS 25 F	KS 47 F
Body and support screen	Type 304 Stainless Steel	
O-rings	FPM and Silicone	
Gasket	PTFE	
Inlet/Outlet	6mm (0.24") OD Barb	8mm (0.32") OD Barb
	4mm (0.16") ID	6mm (0.24") ID
Inlet	0.49 MPa (71 psi)	
Differential	0.29 MPa (42 psi)	
Weight:	0.45kg (1lb)	0.9kg (2lb)
Diameter (without clamp)	50mm (2.0")	60mm (2.4")
Length (with vent valve)	72mm (2.8")	98.5mm (3.9")
Filter size	25mm	47mm
Prefilter size	21mm	35mm (47mm)*
Filtration area	3.8cm ²	12.5cm ²

Part No.	Description	Qty	List
F221-378	KS 25 F	1/ea	\$286.98
F221-379	KS 47 F	1/ea	\$551.88

* If a membrane filter is used as a prefilter, use a 47mm filter and place a polyester separator (DS type) between the 2 membranes

Replacement Parts

KS 25 F

Part No.	Description	Qty	List
F221-179	Support Screen	1/ea	CALL
F221-286	Clamp	1/ea	CALL

KS 47 F

Part No.	Description	Qty	List
F221-271	Support Screen	1/ea	\$57.97

Vented In-Line Stainless Steel Holder

- Support screen is PTFE coated to prevent membrane sticking during autoclaving
- Back pressure support screen prevents membrane rupture during reverse pressure surges
- Vent valve in inlet body enables venting at any time during filtration
- Available in type 304 or type 316 stainless steel

Applications

- Sterilize and ultraclean liquids or gases under positive pressure
- Sterilize with a membrane in place for microbiological studies
- Install for point of use filtration on filling machines

Note: When using the KS 47 inline to filter gases, a second support screen should be used upstream of the membrane



	KS 47
Body and support screen	Type 304 or 316 stainless steel
O-rings (standard)	FPM and silicone
Support screen	PTFE coated stainless steel
Gasket	PTFE
Connections:	1/4" NPTM to hose barb (9.5mm)
Inlet	0.68 MPa (99 psi)
Differential	0.29 MPa (42 psi)
Upstream	5mL
Downstream	2mL
Weight:	0.8kg (1.8lb)
Filter size	47mm
Prefilter size	35mm (47mm)*
Filtration size	12.5cm ²

Part No.	Description	Qty	List
F221-380	304 SS	1/ea	\$617.86
F221-381	316 SS	1/ea	\$941.80

* If a membrane filter is used as a prefilter, use a 47mm filter and place a polyester separator (DS type) between the 2 membranes

Replacement Parts

Type 304 SS

Part No.	Description	Qty	List
F221-276	Support Screen	1/ea	CALL
F221-266	Inlet/Outlet Adapter	1/ea	\$40.28



Large Standard Stainless Steel Holders (90, 142 & 293mm)

- Seal membrane by hand tightening locking wing nuts
- Optimal holder design minimizes resistance and maximizes flow rate
- Available in either type 304 or type 316 stainless steel
- Each unit labeled with identifying serial numbers on the outside of both the inlet and outlet plates



Applications

- Use in-line for filtering gases or liquids
- Use with pressure vessel for batch type operations.

	KS 90	KS 142	KS 293
Body	Type 304 or 316 stainless steel		
Support screen	PTFE coated photoetched SS		
O-rings (standard)	Silicone		
Gasket	PTFE		
Inlet, 3/4" NPTF to:	11mm (3/8") hose barb		16mm (5/8") hose barb
Outlet, 3/4" NPTF to:			
Inlet (Pressure)	0.68 MPa (99 psi)		
Differential (Pressure)	0.29 MPa (42 psi)		
Weight:	4kg (8.8lb)	6kg (13lb)	19kg (42lb)
Membrane filter size	90mm	142mm	293mm
Prefilter size	76mm	124mm	257mm
Filtration area	45cm ²	113cm ²	530cm ²

Supplied with aluminum wrench (spanner) and 6mm allen wrench (hex key).

Part No.	Description	Qty	List
F221-164	304 SS KS90	1/ea	\$905.70
F221-168	316 SS KS90	1/ea	\$1177.40
F221-212	304 SS KS142	1/ea	\$1480.18
F221-225	316 SS KS142	1/ea	\$1924.24
F221-238	304 SS KS293	1/ea	\$3057.75
F221-251	316 SS KS293	1/ea	\$3975.07

Replacement Parts

KS90

Part No.	Description	Qty	List
F221-197	O-Ring (FPM)	1/ea	CALL
F221-211	Support Screen (316 SS)	1/ea	\$296.22

KS142

Part No.	Description	Qty	List
F221-672	O-Ring (FEP-encapsulated silicone)	1/ea	\$24.56
F221-763	O-Ring (FPM)	1/ea	\$46.73
F221-228	Support Screen (316 SS)	1/ea	CALL

KS 293

Part No.	Description	Qty	List
F221-241	O-Ring (FEP-encapsulated silicone)	1/ea	\$52.75
F221-242	O-Ring (FPM)	1/ea	CALL
F221-254	Support Screen (316 SS)	1/ea	CALL

**Replacement parts are also available for
the Inlet & Outlet Assemblies, Filter Support
Systems
and the Sealing & Support Assemblies.**

Don't forget your TCLP Filters on page 123.



Large Sanitary Stainless Steel Holders (90, 142 & 293mm)

- Sanitary connections are threadless and can be completely disassembled for thorough cleaning
- Designed for minimal resistance and maximal flow
- Available in either type 304 or 316 stainless steel
- Removable wing nuts tighten easily by hand to seal membrane
- Both inlet and outlet plates clearly marked with identifying serial number

Applications

- Ultraclean or sterilize gases or liquids
- Use with a pressure vessel for large volumes and batch type operations

Body	Type 304 or 316 stainless steel
Support screen	PTFE coated photoetched stainless steel
O-ring (standard)	Silicone
Gaskets (standard)	PTFE and Silicone
Inlet and Outlet	11/2" sanitary fitting to 14.3mm hose barb
Inlet (Pressure)	0.68 MPa (99 psi)
Differential (Pressure)	0.29 MPa (42 psi)



Supplied with aluminum wrench (spanner) and 6mm allen wrench (hex key).

Part No.	Description	Qty	List
F221-374	316 SS KS90ST	1/ea	\$2008.07
F221-229	304 SS KS142ST	1/ea	\$1801.54
F221-230	316SS KS142ST	1/ea	\$2342.01
F221-255	304 SS KS293ST	1/ea	\$3379.11
F221-256	316 SS KS293ST	1/ea	\$4392.84

Replacement Parts

KS 90 ST, KS 142 ST & KS 293 ST

Part No.	Description	Qty	List
F221-289	Inlet / Outlet Gasket (PTFE)	1/ea	\$13.47
F221-290	Inlet / Outlet Gasket (FPM)	1/ea	\$13.47
F221-220	Spanner (Wrench)	1/ea	CALL

KS 90 ST

Part No.	Description	Qty	List
F221-197	O-Ring (FPM)	1/ea	CALL
F221-211	Support Screen (316 SS)	1/ea	\$296.22

KS 142 ST

Part No.	Description	Qty	List
F221-672	O-Ring (FEP-Encapsulated Silicone)	1/ea	\$24.56
F221-673	O-Ring (FPM)	1/ea	\$46.73
F221-228	Support Screen (316 SS)	1/ea	CALL

KS 293 ST

Part No.	Description	Qty	List
F221-241	O-Ring (FEP-Encapsulated Silicone)	1/ea	\$52.75
F221-254	Support Screen (316 SS)	1/ea	CALL

Be sure to ask your sales representative about Ricca Chemical's TCLP Extraction Fluid.



Large Stainless Steel Holders with Reservoirs

- Designed for filtering small batches of liquid without having to use a separate pressure vessel
- Separate ports for pressurizing the reservoir and for adding additional sample
- Membrane sealed internally by hand-tightening locking wing nuts
- Available in either type 304 or 316 stainless steel

Applications

- Sterilizing, ultracleaning and flow decay tests for pilot studies
- Suitable for hazardous toxicity testing and TCLP
- Optional back pressure screen recommended for intermittent fill operations



	KST 47	KST 90
Body	Type 304 SS	Type 304 or 316 SS
Support screen	Photoetched 304 SS	PTFE coated photoetched 304 SS
O-rings (standard)	Silicone	
Gasket (standard)	Silicone/PTFE	PTFE
Inlet	1/4" NPTM	
Inlet adapter	11mm hose barb	Ball valve with stepped hose barb (7mm, 10.5mm, 13mm)
Outlet	1/4" NPTM	3/4" NPTM
Outlet adapter	10mm hose barb	11mm hose barb
Inlet (Pressure)	0.49 MPa (71psi)	
Differential (Pressure)	0.29 MPa (42psi)	
Vent relief valve (Pressure)	0.44 ± 0.04 MPa (64 ± 6psi)	
Weight:	1kg (2.2lb)	5kg (11lb)
Capacity:	200mL	750mL
Membrane filter size	47mm	90mm
Prefilter size	35mm	76mm
Filtration area	12.5cm ²	45.3cm ²

Supplied with aluminum wrench (spanner) and 6mm allen wrench (hex key).

Part No.	Description	Qty	List
F221-182	304 SS KST47	1/ea	\$1571.34
F221-384	304 SS KST90	1/ea	\$1694.42
F221-385	316 SS KST90	1/ea	\$3896.58

Replacement Parts & Optional O-Rings

KST 47

Part No.	Description	Qty	List
F221-290	Inlet Cap Gasket (FPM)	1/ea	\$13.47
F221-289	Inlet Cap Gasket (PTFE)	1/ea	\$13.47
F221-185	O-Ring (PTFE)	1/ea	CALL
F221-186	O-Ring (FPM)	1/ea	\$9.54

KST 90

Part No.	Description	Qty	List
F221-235	Inlet Cap O-Ring (FEP-Encapsulated Silicone)	1/ea	\$17.00
F221-197	O-Ring (FPM)	1/ea	CALL
F221-201	Back Pressure Support Screen (304 SS)	1/ea	CALL
F221-202	Back Pressure Support Screen (316 SS)	1/ea	CALL
F221-200	Back Pressure Support Screen (PTFE Coated 316 SS)	1/ea	\$6.27
F221-220	Allen Wrench (Hex Key) 6mm	1/ea	CALL

We also offer a wide range of TCLP Standards to meet your testing needs.



Stirred Cells

- Tangential flow design increases membrane life and sample throughput
- PTFE stir bar is mounted to stay clear of the membrane
- All contact surfaces are non-metal
- Clear plastic reservoir allows for fluid level and sample condition to be visually monitored
- Removable top cap (UHP 25, 43 and 62) and sample port (UHP 76, 90, 150) allow sample to be added during filtration
- Pressure relief valve supplied

Applications

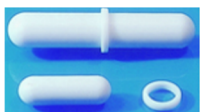
- Desalting and concentrating proteins, enzymes, virus and other biological samples
- Filtering fluids that contain a heavy particle burden, e.g. bacteria, silts

Note: Cells are not autoclavable



	UHP 25	UHP 43	UHP 62	UHP 76	UHP 90	UHP 150
End caps & Stir rod	Polyacetal					
Cell Barrel	Polycarbonate				Acrylic	
O-Rings	Silicone					
Support Screen	Polypropylene					
Stir Bar	PTFE					
Pressurizing	M10					
Vent Valve	10mm Screw Female					
Maximum (Pressure)	0.5 Mpa (73 psi)					
Vent Relief Valve (Pressure)	0.44 ± 0.04 Mpa (63± 6 psi)					
Maximum Operating Temp	40°C					
Diameter	60mm	68mm	82mm	117mm	135mm	198mm
Height	138mm	161mm	190mm	211mm	230mm	268.5mm
Weight	0.05kg	0.18kg	0.35kg	0.46kg	1.4kg	3.1kg
	0.11lb	0.40lb	0.77lb	1.01lb	3.08lb	6.82lb
Capacity	10mL	70mL	200mL	450mL	600mL	2000mL
Min. recoverable upstream	0.5mL	2.5mL	4.5mL	10mL	15mL	60mL
Downstream holdup	1.3mL	4.6mL	9.1mL	13mL	20mL	41mL
Membrane filter size	25mm	43mm	62mm	76mm	90mm	150mm
Filtration Area	3.5cm ²	11.5cm ²	27.0cm ²	38.5cm ²	54.5cm ²	162cm ²

Part No.	Description	Qty	List
F221-368	UHP25	1/ea	CALL
F221-369	UHP43	1/ea	CALL
F221-370	UHP62	1/ea	CALL
F221-371	UHP76	1/ea	CALL
F221-372	UHP90	1/ea	CALL
F221-373	UHP150	1/ea	CALL



Don't miss out on the selection of stir bars we have to offer.



SYRINGE FILTERS

FOXBRAND® Syringe Filters

Used for processing small amount (< 1000mL) samples. Typical applications include HPLC mobile phase filtration and desalting, solution filtration in synthesis, particulate filtration of analytical sample, biological sample filtration and quick separation (DNA, plasma, protein, cell cultures and others). These Syringe filters are made of inert plastic house, membrane and luer lock fit. It is used with disposable syringes or filtration device with luer fit.



Nylon

Part No.	Diameter / Pore Size	Qty	List
F400-010	25mm / 0.45µm	50/pk	\$127.56
F400-020	25mm / 0.2µm	50/pk	\$132.36
F400-030	30mm / 0.45µm	50/pk	\$171.37

Glass fiber

Part No.	Diameter / Pore Size	Qty	List
F430-010	25mm / 1.0µm	100/pk	\$228.69

PVDF

Part No.	Diameter / Pore Size	Qty	List
F435-001	13mm / 0.45µm	100/pk	\$208.46

PTFE

Part No.	Diameter / Pore Size	Qty	List
F460-010	25mm / 0.45µm	50/pk	\$127.45
F465-010	25mm / 1.0µm	50/pk	\$116.06



EZFlow® Hydrophilic PTFE Syringe Filters

EZFlow® 13mm, 25mm and 33mm sample prep syringe filters are designed for aqueous and organic solution samples. The sample prep syringe filters are used for clarification and particle removal from samples before instrumental analysis such as HPLC, IC and GC. These syringe filters are available in a variety of filter membrane materials, offered in 0.2µm or 0.45µm pore sizes. The filter membranes are reinforced with polypropylene housing with a female Luer-lok inlet and a male Luer slip outlet.

All materials comply with USP Class VI Standards.

Part No.	Filter Diameter	Filter Pore Size	Qty	List
C500-435	13mm	0.2µm	100/pk	\$142.50
C500-438	13mm	0.45µm	100/pk	\$142.50
C500-436	25mm	0.2µm	100/pk	\$158.80
C500-439	25mm	0.45µm	100/pk	\$158.80
C500-437	33mm	0.2µm	100/pk	\$177.13
C500-440	33mm	0.45µm	100/pk	\$177.13



EZFlow® Hydrophobic PTFE Syringe Filters

EZFlow® 13mm, 25mm and 33mm sample prep syringe filters are designed for aqueous and organic solution samples. The sample prep syringe filters are used for clarification and particle removal from samples before instrumental analysis such as HPLC, IC and GC. These syringe filters are available in a variety of filter membrane materials, offered in 0.2µm or 0.45µm pore sizes. The filter membranes are reinforced with polypropylene housing with a female Luer-lok inlet and a male Luer slip outlet.

All materials comply with USP Class VI Standards.

Part No.	Filter Diameter	Filter Pore Size	Qty	List
C500-431	13mm	0.2µm	100/pk	\$148.20
C500-433	13mm	0.45µm	100/pk	\$148.20
C500-432	25mm	0.2µm	100/pk	\$154.48
C500-434	25mm	0.45µm	100/pk	\$154.48



EZFlow® Glass Fiber Syringe Filters

EZFlow® 13mm, 25mm and 33mm Syringe Filters are used for prefiltration, clarification or fine particulate removal. These syringe filters are available in a variety of filter membrane materials, offered in 0.2µm or 0.45µm pore sizes. The filter membranes are reinforced with polypropylene housing with a female Luer-lok inlet and a male Luer slip outlet.

All materials comply with USP Class VI Standards and are available for both sterile and non-sterile applications.

Part No.	Filter Diameter	Filter Pore Size	Qty	List
C500-417	13mm	0.2µm	100/pk	\$203.55
C500-419	13mm	0.45µm	100/pk	\$204.36
C500-418	25mm	0.2µm	100/pk	\$210.13
C500-420	25mm	0.45µm	100/pk	\$210.08



EZFlow® Nylon Syringe Filters

EZFlow® 13mm, 25mm and 33mm sample prep syringe filters are designed for aqueous and organic solution samples. The sample prep syringe filters are used for clarification and particle removal from samples before instrumental analysis such as HPLC, IC and GC. These syringe filters are available in a variety of filter membrane materials, offered in 0.2µm or 0.45µm pore sizes. The filter membranes are reinforced with polypropylene housing with a female Luer-lok inlet and a male Luer slip outlet. All materials comply with USP Class VI Standards.



Part No.	Filter Diameter	Fiter Pore Size	Qty	List
C500-427	13mm	0.2µm	100/pk	\$111.43
C500-429	13mm	0.45µm	100/pk	\$111.43
C500-428	25mm	0.2µm	100/pk	\$136.80
C500-430	25mm	0.45µm	100/pk	\$136.80

EZFlow® PES Syringe Filters

EZFlow® 13mm, 25mm and 33mm sample prep syringe filters are designed for aqueous and organic solution samples. The sample prep syringe filters are used for clarification and particle removal from samples before instrumental analysis such as HPLC, IC and GC. These syringe filters are available in a variety of filter membrane materials, offered in 0.2µm or 0.45µm pore sizes. The filter membranes are reinforced with polypropylene housing with a female Luer-lok inlet and a male Luer slip outlet. All materials comply with USP Class VI Standards.



Part No.	Filter Diameter	Fiter Pore Size	Qty	List
C500-393	13mm - Sterile	0.2µm	100/pk	\$146.50
C500-396	13mm - Sterile	0.45µm	100/pk	\$196.48
C500-423	13mm	0.2µm	100/pk	\$103.83
C500-425	13mm	0.45µm	100/pk	\$134.30
C500-400	25mm - Glass Fiber Prefilter	0.45µm	100/pk	\$217.15
C500-394	25mm - Sterile	0.2µm	100/pk	\$149.20
C500-397	25mm - Sterile	0.45µm	100/pk	\$255.83
C500-424	25mm	0.2µm	100/pk	\$210.20
C500-399	25mm - Glass Fiber Prefilter	0.2µm	100/pk	\$217.15
C500-426	25mm	0.45µm	100/pk	\$210.20
C500-395	33mm - Sterile	0.2µm	100/pk	\$299.98
C500-398	33mm - Sterile	0.45µm	100/pk	\$350.78



EZFlow® Polypropylene Syringe Filters

EZFlow® 13mm, 25mm and 33mm Syringe Filters are used for prefiltration, clarification, or fine particulate removal. These syringe filters are available in a variety of filter membrane materials, offered in 0.2µm or 0.45µm pore sizes. The filter membranes are reinforced with polypropylene housing with a female Luer-lok inlet and a male Luer slip outlet. All materials comply with USP Class VI Standards and are available for both sterile and non-sterile applications.



Part No.	Filter Diameter	Fiter Pore Size	Qty	List
C500-413	13mm	0.2µm	100/pk	\$97.15
C500-415	13mm	0.45µm	100/pk	\$97.15
C500-414	25mm	0.2µm	100/pk	\$148.43
C500-416	25mm	0.45µm	100/pk	\$148.43

EZFlow® Hydrophilic PVDF Syringe Filter

EZFlow® 13mm, 25mm and 33mm sample prep syringe filters are designed for aqueous and organic solution samples. The sample prep syringe filters are used for clarification and particle removal from samples before instrumental analysis such as HPLC, IC and GC. These syringe filters are available in a variety of filter membrane materials, offered in 0.2µm or 0.45µm pore sizes. The filter membranes are reinforced with polypropylene housing with a female Luer-lok inlet and a male Luer slip outlet. All materials comply with USP Class VI Standards.



Part No.	Filter Diameter	Fiter Pore Size	Qty	List
C500-401	13mm - Sterile	0.2µm	100/pk	\$179.78
C500-404	13mm - Sterile	0.45µm	100/pk	\$179.78
C500-441	13mm	0.2µm	100/pk	\$128.53
C500-444	13mm	0.45µm	100/pk	\$128.53
C500-402	25mm - Sterile	0.2µm	100/pk	\$216.73
C500-405	25mm - Sterile	0.45µm	100/pk	\$216.73
C500-421	25mm - Glass Fiber Prefilter	0.2µm	100/pk	\$217.15
C500-442	25mm	0.2µm	100/pk	\$179.80
C500-422	25mm - Glass Fiber Prefilter	0.45µm	100/pk	\$217.15
C500-445	25mm	0.45µm	100/pk	\$179.80
C500-403	33mm - Sterile	0.2µm	100/pk	\$259.50
C500-406	33mm - Sterile	0.45µm	100/pk	\$259.50
C500-443	33mm	0.2µm	100/pk	\$218.13
C500-446	33mm	0.45µm	100/pk	\$218.13



VACUUM FILTRATION

Vacuum filtration is used primarily in microbiological and analytical procedures that involve collecting a particulate (bacteria, precipitate, etc.) from a liquid suspension. Liquid poured into a funnel passes through a filter, which retains the particulate and filtrate can be collected into a filter flask, directly or via a vacuum manifold. Applying vacuum reduces process time compared to gravity flow. Advantec supplies a wide range of vacuum filter holders and accessories. Select from glass, polysulfone or stainless steel assemblies with funnels holding from 15 to 1000mL.

13mm Glass Microanalysis Holders

- Filter small volumes of liquid
- Concentrate samples in a small area (1.2cm²)
- KG 13 AA features a two-part funnel (13mL/100mL) connected by a ground glass joint
- KG 13 available in three different funnel sizes

Support	Sintered glass
Funnel base	Borosilicate glass
Stopper	Silicone rubber
Clamp	Anodized aluminum
Included	#5 stopper adapts to standard 125mL vacuum filter flask
Optional	#8b stopper adapts to 1 L flask or standard manifold
Pressure:	Vacuum
Weight:	0.37kg (0.88lb)
Filter size	25mm
Prefilter size	Not Recommended
Filtration area	1.2cm ²



Part No.	Model / Funnel Capacity	Qty	List
F221-292	KG 13 A / 100mL	1/ea	\$138.14
F221-300	KG 13 B / 500mL	1/ea	\$175.94
F221-304	KG 13 C / 1000mL	1/ea	\$188.98
F221-301	KG 13 AA / 13/100mL	1/ea	\$168.91

EZFlow® Glass Filtration Tools

The Foxx Life Science EZflow® glass filtration is excellent for filtering particulate contamination and engineered to be resistant to acid, chlorine bromine, iodine and organic substances. With its ability to withstand heat, corrosion and thermal shock also allows the filter assembly to be utilized in different fields.

EZFlow® Assembly

Our assemblies feature an all glass assembly that is made from high quality ingredients. It includes a flask, funnel cup, membrane holder and an aluminum clamp.

Part No.	Description	Qty	List
C500-687	125mL Flask, 15mL Funnel w/Ø25mm Glass Membrane	1/ea	\$125.00
C500-690	250mL Flask, 25mL Funnel w/Ø25mm Glass Membrane	1/ea	\$145.00
C500-693	500mL Flask, 50mL Funnel w/Ø25mm Glass Membrane	1/ea	\$155.00
C500-696	1000mL Flask, 300mL Funnel w/Ø47mm Glass Membrane	1/ea	\$250.00
C500-699	2000mL Flask, 500mL Funnel w/Ø47mm Glass Membrane	1/ea	\$300.00
C500-702	5000mL Flask, 1000mL Funnel w/Ø90mm Glass Membrane	1/ea	\$1350.00



EZFlow® Replacement Clamp

EZflow® Replacement clamp is the replacement part for our EZflow® Glass filtration Assemblies. Each unit comes with 1 replacement clamps for 25, 47 or 90mm diameter membrane holder.

Part No.	Description	Qty	List
C500-684	25mm Replacement Clamp	1/ea	\$25.00
C500-685	47mm Replacement Clamp	1/ea	\$50.00
C500-686	90mm Replacement Clamp	1/ea	\$208.33



EZFlow® Replacement Filter Base

EZflow® Replacement Filter Base is the replacement part for our EZflow® Glass filtration Assemblies. Each unit comes with one 25, 47 or 90mm diameter replacement filter base.



Part No.	Description	Qty	List
C500-681	25mm Replacement Filter Base	1/ea	\$50.00
C500-682	47mm Replacement Filter Base	1/ea	\$100.00
C500-683	90mm Replacement Filter Base	1/ea	\$100.00

EZFlow® Replacement Upper Funnel Cup

EZflow® Replacement Upper Funnel Cup is the replacement part for our EZflow® Glass filtration Assemblies. Each unit comes with one 15, 30, 50, 300, 500 or 1000mL upper funnel cup.



Part No.	Description	Qty	List
C500-688	15mL	1/ea	\$25.00
C500-691	30mL	1/ea	\$35.00
C500-694	50mL	1/ea	\$40.00
C500-697	300mL	1/ea	\$50.00
C500-700	500mL	1/ea	\$75.00
C500-703	1000mL	1/ea	\$255.15

EZFlow® Replacement Filter Flask

EZflow® Replacement Filter Flask is the replacement part for our EZflow® Glass filtration Assemblies. Each unit comes with one 125mL filter flask.



Part No.	Description	Qty	List
C500-689	125mL	1/ea	\$25.00
C500-692	250mL	1/ea	\$35.00
C500-695	500mL	1/ea	\$40.00
C500-698	1000mL	1/ea	\$50.00
C500-701	2000mL	1/ea	\$75.00
C500-704	5000mL	1/ea	\$375.00

All-Glass Vacuum Filter Holder Set, 47mm or 90mm

This all-glass filter holder is used in particulate contamination analysis for filtering aqueous, organic or corrosive liquids. It is also recommended for HPLC solvent filtration. Complete set includes a borosilicate glass funnel, anodized aluminum spring clamp, vacuum base with sintered disc and ground joint flask. Membrane filters are not included. Parts are also available separately. Outlet Fitting: 6mm (1/4") O.D. tubulated cap sidearm to vacuum



Part No.	Description	Qty	List
B725-207	Vacuum Filter Holder Set, 47mm	1/ea	\$381.47
B725-225	Replacement Glass Funnel, 300mL	1/ea	\$61.86
B725-233	Replacement Spring Clamp, 47mm	1/ea	\$66.24
B725-220	Replacement Glass Base and Cap, 47mm	1/ea	\$168.31
B725-214	Replacement Flask with Ground Glass Joints, 1000mL	1/ea	\$94.58
B725-236	Vacuum Filter Holder Set, 90mm	1/ea	\$740.85
B725-223	Replacement Glass Funnel, 1000mL	1/ea	\$129.57
B725-234	Replacement Spring Clamp, 90mm	1/ea	\$133.71
B725-221	Replacement Glass Base and Cap, 90mm	1/ea	\$277.84
B725-239	Replacement Support Screen, Stainless, PTFE Coated, 90mm	1/ea	\$203.28
B725-227	Replacement Gasket, PTFE, 90mm	1/ea	\$8.74

Optional Accessories

Part No.	Description	Qty	List
B725-214	Flask, 1000mL capacity, with Ground Glass Joints	1/ea	\$94.58
B725-212	Vacuum Bottle, 2000mL capacity, with Ground Glass Joints	1/ea	\$371.01
B725-213	Vacuum Bottle, 5000mL capacity, with Ground Glass Joints	1/ea	\$1023.28



Vacuum Filter Holder Set with Fritted Glass Support Base, 47mm

Designed for bacteriological analysis of water using 47mm sterile membrane filters. Also applicable for analysis of suspended solids in water using 47mm depth filters. Complete set includes a borosilicate glass funnel and base, anodized aluminum spring clamp and perforated silicone stopper. Parts are also available separately.

Funnel: 300mL
 Prefilter Diameter: Thick Depth Prefilter: 35mm Membrane Prefilter: 47mm
 Outlet Fitting: 6mm (1/4") O.D. tubulated cap sidearm to vacuum
 Dimensions (H x D): 22.9cm x 7.6cm



Part No.	Description	Qty	List
B725-219	Vacuum Filter Holder Set, 47mm	1/ea	\$262.42
B725-225	Replacement Glass Funnel, 300mL	1/ea	\$61.86
B725-208	Replacement Base for 47mm Glass Filter Holder	1/ea	\$100.04
B725-233	Replacement Spring Clamp, 47mm	1/ea	\$66.24
B725-241	Replacement Silicone Stopper, Perforated, Size #8	1/ea	\$11.01

Vacuum Filter Holder Set with PTFE Coated Funnel and Base, 47mm

Designed for bacteriological analysis where it is necessary to sterilize the filter holder with the membrane filter in place. The glass surface is coated with PTFE to avoid filter damage and membrane adhesion during autoclaving. Complete set includes a PTFE-faced borosilicate glass funnel and PTFE-faced base, anodized aluminum spring clamp and perforated silicone stopper. Parts are also available separately.

Funnel: 300mL
 Prefilter Diameter: Thick Depth Prefilter: 35mm
 Membrane Prefilter: 47mm
 Dimensions (H X D): 22.9cm x 7.6cm
 Outlet Fitting: 6mm (1/4") O.D. tubulated cap sidearm to vacuum



Part No.	Description	Qty	List
B725-231	Vacuum Filter Holder Set with PTFE-Coated Funnel and Base, 47mm	1/ea	\$312.86
B725-218	Replacement PTFE-Coated Glass Funnel, 300mL	1/ea	\$90.26
B725-209	Replacement PTFE-Coated Glass Base, 47mm	1/ea	\$151.44
B725-233	Replacement Spring Clamp, 47mm	1/ea	\$66.24
B725-241	Replacement Silicone Stopper, Perforated, Size #8	1/ea	\$11.01

Optional Accessories

Part No.	Description	Qty	List
B725-215	Vacuum Filtering Flask, 1000mL capacity	1/ea	\$51.78
B725-217	Vacuum Filtering Flask, 4000mL capacity	1/ea	\$276.11

Vacuum Filter Holder Set with Stainless Steel Screen, 47mm

Designed for analyzing particulate contamination of hydraulic fluids and oils using gravimetric or particulate counting methods and can be used in exfoliative cytology applications. Complete set includes a borosilicate glass funnel and base, anodized aluminum spring clamp, stainless steel support screen, PTFE gasket and perforated silicone stopper. Parts are also available separately.

Materials: Borosilicate glass funnel and base; stainless steel screen filter support; anodized aluminum spring clamp; silicone stopper
 Funnel: 300mL
 Prefilter Diameter: Thick Depth Prefilter: 35mm
 Membrane Prefilter: 47mm
 Dimensions (H X D): 22.9cm x 7.6cm
 Outlet Fitting: 6mm (1/4") O.D. tubulated cap sidearm to vacuum



Part No.	Description	Qty	List
B725-235	Vacuum Filter Holder Set with Stainless Steel Screen, 47mm	1/ea	\$308.43
B725-225	Replacement Glass Funnel, 300mL	1/ea	\$61.86
B725-210	Replacement Glass Base, 47mm	1/ea	\$111.65
B725-233	Replacement Spring Clamp, 47mm	1/ea	\$66.24
B725-238	Replacement Support Screen, Stainless, 47mm	1/ea	\$32.01
B725-226	Replacement Gasket, PTFE, 47mm	1/ea	\$3.74
B725-241	Replacement Silicone Stopper, Perforated, Size #8	1/ea	\$11.01

25mm Glass Microanalysis Holder

- Use for filtering small volumes for biological or particulate contamination
- Available with sintered glass or stainless steel support
- Use stainless steel screen when producing ultraclean filtrate or when filtering proteinaceous solutions



	KG 25	KGS 25
Support:	Sintered glass	Stainless steel screen
Funnel, base:	Borosilicate glass	
Stopper:	Silicone rubber	
Clamp:	Anodized aluminum	
Included:	#5 stopper adapts to standard 125mL vacuum filter flask	
Optional:	#8b stopper adapts to 1L flask or standard manifold	
Pressure:	Vacuum	
Weight:	0.19kg (0.45lb)	
Filter size:	25mm	
Prefilter size:	16mm	
Filtration area:	2.1cm ²	

Part No.	Model	Funnel Capacity	Support	Qty	List
F221-306	KG 25	15mL	Glass Frit	1/ea	\$161.17
F221-315	KG 25 A	150mL	Glass Frit	1/ea	\$161.18
F221-316	KG 25 B	300mL	Glass Frit	1/ea	\$176.53
F221-317	KGS 25	15mL	Stainless Steel	1/ea	\$171.94
F221-323	KGS 25 A	150mL	Stainless Steel	1/ea	\$168.56
F221-324	KGS 25 B	300mL	Stainless Steel	1/ea	\$188.31

47mm Glass Microanalysis Holders

- Standard size for microbiology and particulate analysis
- Filter up to 1000mL
- Available with sintered glass, stainless steel or PTFE support

	KG 47	KGS 47	KGT 47
Support:	Sintered glass	Stainless steel screen	PTFE
Funnel, base:	Borosilicate glass		
Stopper:	Silicone rubber		
Clamp:	Anodized Aluminum		
Connections (included):	#8 stopper adapts to standard 1 L vacuum filter flask or vacuum manifold cup		
Pressure:	Vacuum		
Weight:	0.6kg (1.2lb)		
Filter size:	47mm		
Prefilter size:	35mm		
Filtration area:	9.6cm ²		

Part No.	Model	Funnel Capacity	Support	Qty	List
F221-340	KG 47	100mL	Glass Frit	1/ea	\$214.84
F221-325	KG 47	300mL	Glass Frit	1/ea	\$210.63
F221-341	KG 47	500mL	Glass Frit	1/ea	\$247.07
F221-365	KG 47	1000mL	Glass Frit	1/ea	\$300.78
F221-349	KGS 47	100mL	Stainless Steel	1/ea	\$225.08
F221-342	KGS 47	300mL	Stainless Steel	1/ea	\$220.67
F221-350	KGS 47	500mL	Stainless Steel	1/ea	\$258.85
F221-366	KGS 47	1000mL	Stainless Steel	1/ea	\$315.12
F221-355	KGT 47	100mL	PTFE Support	1/ea	\$143.37
F221-348	KGT 47	300mL	PTFE Support	1/ea	\$136.86
F221-356	KGT 47	500mL	PTFE Support	1/ea	\$162.91
F221-367	KGT 47	1000mL	PTFE Support	1/ea	\$206.28



90mm Glass Microanalysis Holders

- Larger filtration area for filtering larger volumes (>500mL)
- Use for viscous samples or those with a heavy particle or bioburden that would clog a 47mm filter
- Available with sintered glass or stainless steel support



	KG 90	KGS 90
Support:	Sintered glass	Stainless steel screen
Funnel, base:	Borosilicate glass	
Stopper:	Silicone rubber	
Clamp:	Anodized aluminum	
Connection (Included):	#8 stopper adapts to standard 1 L vacuum filter flask or vacuum manifold cup	
Pressure:	Vacuum	
Weight:	1.2kg (2.82lb)	
Filter size:	90mm	
Prefilter size:	70mm	
Filtration area:	43cm ²	

Graduated

Part No.	Model	Funnel Capacity	Support	Qty	List
F221-375	KG 90	1000mL	Glass Frit	1/ea	\$654.76
F221-376	KGS90	1000mL	Stainless Steel	1/ea	\$665.00

Stainless Steel Filter Holder KSF 47

- Nonbreakable stainless steel unit may be flame sterilized to sanitize the holder between samplings
- Set pins and a locking nut on the funnel to help prevent twisting and tearing of the membrane
- Autoclavable with membrane in place

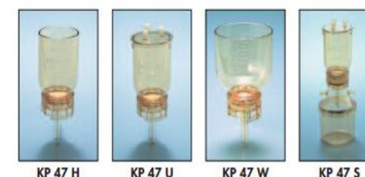


	KSF 47
Support:	Type 304 stainless steel screen
Funnel, base:	Type 304 stainless steel
Stopper:	Silicone rubber
Gasket:	PTFE
Connections (included):	#8 stopper adapts to standard 1 L vacuum filter flask or vacuum manifold cup
Funnel:	500mL
Pressure:	Vacuum (21" Hg recommended)
Weight:	0.5kg (1.17lb)
Filter size:	47mm
Prefilter size:	35mm
Filtration area:	9.3cm ²

Part No.	Description	Qty	List
F221-377	KSF47	1/ea	\$900.32

PolySulfone Filter Holders KP 47

- Can be used aseptically
- Recessed filter support provides sufficient clearance so that the membrane will not twist or tear when the funnel is secured
- Graduated funnel in 300mL (standard) or 500mL (wide mouth) capacities
- Receiver flask (KP 47 S) is interchangeable with all other models
- Funnel cover can be vented aseptically using disposable syringe filter



Part No.	Model	Description	Main Component	Qty	List
F221-532	KP 47 H	Filter Holder	Funnel, base	1/ea	\$71.29
F221-531	KP 47 U	Aseptic Filter Unit	Funnel, base, cover	1/ea	\$59.91
F221-534	KP 47 W	Wide Mouth Filter Holder	Funnel, base	1/ea	\$69.61
F221-530	KP 47 S	Aseptic Filter System	Funnel, base, cover, receiver ...	1/ea	\$82.46

Microanalysis Vacuum Filter Holder Set, 25mm with Fritted Glass Filter Support

Designed for particulate or biological contamination analysis of small volumes using a vacuum filter. Includes a fritted glass filter support and No. 5 perforated silicone stopper for easy attachment to a vacuum filtering flask. Membrane filters are not included. Thick prefilters or laminated filters will not seal in this holder and it is not autoclavable with membrane filters installed. Unlaminated PTFE or PVDF membranes are recommended for solvent applications.

Complete set includes a borosilicate glass funnel and base, fritted glass filter support, anodized aluminum spring clamp and silicone stopper. Parts are also available separately.

Filter Diameter: 25mm
 Filtration Area: 2.5cm²
 Capacity (Funnel): 15mL
 Dimensions: 15.2cm Height / 2.5cm Diameter



Part No.	Description	Qty	List
B725-229	Microanalysis Vacuum Filter Holder Set, Fritted Glass, 25mm	1/ea	\$215.98
B725-224	Replacement Glass Funnel, 15mL	1/ea	\$37.24
B725-232	Replacement Spring Clamp, 25mm	1/ea	\$69.57
B725-222	Replacement Fritted Glass Base w/ Stopper, 25mm	1/ea	\$99.34
B725-240	Replacement Perforated Silicone Stopper, No. 5	1/ea	\$9.94

Micronanalysis Vacuum Filter Holder Set, 25mm with Stainless Filter Support

Designed for particulate or biological contamination analysis of small volumes using a vacuum filter. Includes a stainless steel screen filter support and No. 5 perforated silicone stopper for easy attachment to a vacuum filtering flask. Membrane filters are not included. Thick prefilters or laminated filters will not seal in this holder and it is not autoclavable with membrane filters installed. Unlaminated PTFE or PVDF membranes are recommended for solvent applications.

Complete set includes a borosilicate glass funnel and base, removable stainless steel screen filter support, anodized aluminum spring clamp and silicone stopper. Parts are also available separately.

Filter Diameter: 25mm
 Filtration Area: 2.5cm²
 Capacity (Funnel): 15mL
 Dimensions: 15.2cm Height / 2.5cm Diameter



Part No.	Description	Qty	List
B725-230	Microanalysis Vacuum Filter Holder Set, Stainless, 25mm	1/ea	\$299.28
B725-224	Replacement Glass Funnel, 15mL	1/ea	\$37.24
B725-232	Replacement Spring Clamp, 25mm	1/ea	\$69.57
B725-211	Replacement Base & Stainless Steel Screen, 25mm	1/ea	\$124.18
B725-240	Replacement Perforated Silicone Stopper, No. 5	1/ea	\$9.94
B725-228	Gasket, Teflon	1/ea	\$4.56
B725-237	Support Screen, Stainless Steel, 25mm	1/ea	\$32.01

Optional Accessories

Part No.	Description	Qty	List
B725-216	Vacuum Filtering Flask, 125mL Capacity	1/ea	\$15.53



Looking for a different filtering flask?
 Check out pages 175-177
 for our spotlight on just some of the options
 we have to offer.

Vacuum Manifold - Stainless Steel

- Autoclavable
- 2-way or 3-way valve available, use a 3-way valve when the manifold is used under closed conditions and must be vented to atmosphere without breaking the vacuum connection. 3-way valve vent is female luer slip, accepts standard disposable syringe filter or stainless steel syringe filter holder (KS 13)
- Standard cup accepts a #8 stopper to adapt microanalysis units and other devices
- Exterior taper accepts a 40/35 female joint
- Sterility Test Manifold features rear mounted flushing manifold for use in USP bacteria retentive method



Body and branches:	Type 304 stainless steel
Valves:	PTFE stopcock, chrome plated brass body
Outlet:	1/4" male NPT to hose barb fitting connects main manifold to 3/8" ID vacuum tubing
Standard cup:	Accepts #8 and #8b stopper
Exterior taper:	40/35 male joint

Standard Cup

Dimensions:	L x W x H		Distance between stations (center to center)		Weight	
	in		cm		lb	kg
Single:	8 x 4 3/4 x 7	20.3 x 12 x 17.8	-	-	5.5	2.5
3 station:	18 x 4 3/4 x 7	45.7 x 12 x 17.8	5 1/2	14	9.9	4.5
6 station:	28 1/2 x 4 3/4 x 7	72.4 x 12 x 17.8	4 3/4	12	14.3	6.5

Exterior Taper

Dimensions:	L x W x H		Distance between stations (center to center)		Weight	
	in		cm		lb	kg
Single:	8 x 4 3/4 x 8	20.3 x 12 x 20.3	-	-	5.5	2.5
3 station:	18 x 4 3/4 x 8	45.7 x 12 x 20.3	5 1/2	14	10.4	4.7
6 station:	28 1/2 x 4 3/4 x 8	72.4 x 12 x 20.3	4 3/4	12	16.9	7.7

	Standard Cup		Exterior Taper		Sterility Test (standard cup)
Valve type:	2-way	3-way	2-way	3-way	3-way
Single:	SS 2X	SS 3X	SS SPE/2	SS SPE/3	-
	M432-004	M432-005	F221-382	F221-383	-
3 station:	KM3N	KM3NV	KM3N XT/2	KM3N XT/3	KM3
	M432-006	M432-007	M432-010	M432-011	F221-360
6 station:	KM6N	KM6NV	KM6N XT/2	KM6N XT/3	KM6
	M432-008	M432-009	M432-012	M432-011	F221-361

Standard Cup - 2 Way

Part No.	Description	Qty	List
M432-004	Single, SS 2X	1/ea	\$578.80
M432-006	3 Station, KM3NV	1/ea	\$1117.28
M432-008	6 Station, KM6N	1/ea	\$1753.52

Standard Cup - 3 Way

Part No.	Description	Qty	List
M432-005	Single, SS 3X	1/ea	\$578.80
M432-007	3 Station, KM3NV	1/ea	\$903.96
M432-009	6 Station, KM6NV	1/ea	\$1702.45
F221-360	KM3 Sterility Test	1/ea	\$1351.83

Exterior Taper - 2 Way

Part No.	Description	Qty	List
F221-382	Single, SS SPE/2	1/ea	\$567.46
M432-010	3 Station, KM3N XT/2	1/ea	\$886.23
M432-012	6 Station, KM6N XT/2	1/ea	\$1669.08

Exterior Taper - 3 Way

Part No.	Description	Qty	List
F221-383	SS SPE/3	1/ea	\$578.80
M432-011	KM3N XT/3	1/ea	\$903.96
M432-013	KM6N XT/3	1/ea	\$1702.45
F221-361	KM6 Sterility Test	1/ea	\$2340.84

HELP PAGES

Filtration Membrane Types

Microporous membranes are commonly used in filtration devices for sample preparation, purification and sterilization. The most common membrane types are described here with physical properties and applications.

Cellulose Acetate (CA)

Hydrophilic membrane. Low protein binding, ideal for protein, cell culture media and enzymes filtrations, tissue culture media sterilization, biological fluid filtration and other filtration applications where maximum recovery of proteins is critical.

Features and Benefits

- Low protein binding, 3.8µg/cm²
- Hydrophilic
- High throughput
- Superior strength and stability
- Uniform pore structure, consistent flow rates
- Burst strength of 130 psi

Applications

- Protein and enzyme filtration
- Biological fluid filtration sterilization
- Tissue culture media sterilization
- Clarification of aqueous and alcohol solutions
- Cell Culture

Detailed Application: Biological sample preparation; protein and enzyme filtration with very low protein retention. Filtration of protein-containing solutions with minimal protein loss; sterilization and clarification; receptor binding studies; tissue culture media sterilization; particle removal of cellular constituents from solution: The 0.22µm membrane is the filter of choice for sterile filtration of aqueous solutions such as nutrient media, buffers and sera; the 0.45µm membrane is a very convenient filter type for the reduction of particles and microorganisms in aqueous solutions such as nutrient media, buffers and sera. Enhanced recovery of fastidious gram positive organisms. The 0.8 and 1.2µm membranes are used for the particle filtration in samples where a low adsorption is required. The 5.0µm membrane is used for the coarse particle filtration in samples where a low adsorption is required.

Nylon (NY)

Hydrophilic membrane. Ideal for use in general filtration or medical assays. Superior strength, resistant to a range of organic solvents. Low extractables. High protein binding capacity. Lot-to-lot consistency.

Features and Benefits

- Naturally hydrophilic
- Wide chemical compatibility range
- Strength and dimensional stability
- Low extractables

Applications

- Sterilization, clarification of aqueous and organic solvent solutions
- HPLC sample preparation
- Chromatography
- Hydraulic Fluids and Machined Parts

Detailed Application: Ideally for use in general filtration and HPLC sample preparation of aqueous, solvent-based and organic solutions prior to chromatography or other instrument analyses; excellent chemical compatibility with esters, bases and alcohols; biological sample preparation; high protein binding capacity. Immobilizes antigens, antibodies and other protein.

Polyethersulfone (PES)

Hydrophilic membrane. Designed to remove particulates during general filtration, low protein and drug binding characteristics make it ideally suited for use in life science applications. Its strength and durability are advantageous during usage that involves aggressive handling or automated equipment. Low protein and drug binding characteristics maximize recovery of critical drugs used in I.V. therapy, chemotherapy and open-heart surgery.

Features and Benefits

- Very Low Protein Binding
- Fast Flow Rates
- Low Extractables
- Wide Chemical Compatibility Range
- Strength and Dimensional Stability
- Autoclavable

Applications

- Protein and enzyme filtration sterilization
- Biological fluid filtration sterilization
- Tissue culture media sterilization
- Pharmaceutical sterilizing filtration
- Environmental water studies
- Filtration of Aqueous Solutions
- Analytical Sample Prep, uHPLC
- IC Chromatography
- Sterile Filtration and Clarification
- Cell Culture

Detailed Application: Ideally for use in life science applications. Preparation of aqueous, biological or protein based solutions prior to chromatography or other instrument analyses. Accurate results for the most sensitive analysis of ionic species. Specifically designed for IC applications. Low drug and protein binding for pharmaceutical filtration.



Syringe - Filter Types

Asymmetric Polyethersulfone (PES)

Asymmetric PES enables the fast filtration of aqueous solutions with greater throughput. The PES membrane has low drug and protein binding properties with aqueous solutions. Low ion and metals extractables provide for ideal analysis by ion chromatography and ICP MS. Asymmetric PES is provided both sterile and non-sterile.

Features and Benefits

- Fast flow rate
- High filter capacity
- Low protein binding
- Extended filtration capacity and lifetime
- Higher particle loads and protein concentrations tolerance

Applications

- Prefiltration and Clarification
- Liquid filtration and sterilization
- Ion chromatography
- Gas separation

Nitrocellulose Mixed Esters (MCE)

Hydrophilic membrane. Aqueous clarification and particulate capture. Consistent high flow rate for faster filtration. Uniform pore structure for selectivity. Hydrophilic, inert cellulose nitrate. High binding capacity. Manufactured thickness within 10 microns.

Features and Benefits

- Hydrophilic for aqueous clarification and particulate capture
- Consistent high flow rate for faster filtration
- Uniform pore structure for selectivity
- Hydrophilic, inert cellulose nitrate
- High binding capacity
- Manufactured thickness within 10 microns

Applications

- Filtration of Aqueous and Organic Solutions
- Analytical Sample Prep, uHPLC
- Chromatography
- Clarification

Detailed Application: Used to clarify aqueous samples especially in water studies. Disposable syringe filters for wastewater, food and beverage filtration. Higher protein binding than cellulose acetate for most proteins. HCG; HIV; LH; Chlamydia. Drugs of Abuse Pathogenic Microorganisms, Environmental Contaminants.

Polyvinylidene Difluoride (PVDF)

Hydrophilic membrane. Ideal for use in sterilizing and clarifying filtration of biological solutions. High flow rates. Low extractables. Broad chemical compatibility. Very low protein binding.

Applications

- Filtration of Aqueous and Organic Solutions
- Analytical Sample Prep, uHPLC
- Chromatography
- Clarification

Detailed Application: Sterilizing and clarifying filtration of biological solutions. Preparation of protein-containing solutions prior to chromatography or other instrument analyses. Useful for a wide range of applications, including aggressive and non-aggressive solvent-based mobile phase. Offers excellent chemical compatibility, even with aggressive acids and alcohols. Provides high flow rates and throughput, low extractables and broad chemical compatibility. The 0.22µm pore size assures removal of the contaminant size most likely to plug a UHPLC column and offers significantly better protection of your analytical results.

Polytetrafluoroethylene (PTFE)

Hydrophobic membrane. Ideal for filtration of strong acids and aggressive solutions, venting applications, phase separations, aerosol samplings. Chemically and biologically inert. Superior chemical resistance. Can withstand high temperatures.

Features and Benefits

- Naturally hydrophobic
- Compatible with strong acids and aggressive solutions
- Improved durability and handling

Applications

- Filtration of strong acids and aggressive solutions
- Venting applications
- Phase separations
- Aerosol sampling

Detailed Application: Preparation of organic solutions prior to chromatography or other instrument analyses. Exceptional chemical and temperature compatibility. Filtration of strong acids and aggressive solutions. Venting applications. Ideal for filtration of gas and/or HPLC organic solvents, aggressive solutions and small venting. Ultimate in chemical compatibility for filtering harsh chemicals that destroy other membrane materials. For solvents (acetone, dimethylformamide, DMSO...) or for aggressive aqueous liquids.

Hydrophilic Polytetrafluoroethylene (PTFE 'HP')

PTFE HP membrane is compatible with organic solvents, acids and basic solutions. Hydrophilic PTFE membrane has low drug and protein binding properties with excellent aqueous and solvent compatibility. High sample recoveries and low ion and UV extractables provide for ideal analysis by uHPLC and LC/ MS.

Features and Benefits

- No need to pre-wet the membrane
- No need to flush membrane of pre-wetting chemicals
- No pre-wetting means production time reduction
- Reduce potential interference with biological processes
- Longer shelf life because the filters are stored and shipped dry

Applications

- Molecular identification
- Structural determination
- Pharmacokinetics
- Drug discovery and development
- Drug testing
- Environmental monitoring
- Food safety monitoring
- Oil composition determination

Detailed Application: The PTFE HP has extremely low levels of extractables. PTFE HP syringe filters will not contribute extractables that will interfere with the ionization process. Excellent chemical resistance – Use this universal filter for all your uHPLC, Ion Chromatography and LCMS samples. The HydroPhilic PTFE membrane can be used with both organic and aqueous solvents. When used within a polypropylene housing, the membrane offers excellent chemical resistance.

Glass Fiber (GF)

Hydrophilic material. Used also as a pre-filter to extend membrane life. Eliminate sample contamination. Excellent wet strength for each handling and filter integrity. Ideal for water/air pollution analysis, liquid clarification and cell harvesting.

Features and Benefits

- Acrylic binder
- High dirt holding capacity
- Biologically inert
- Bonding reduces media migration

Applications

- Filtration of Aqueous and Organic Solutions
- Analytical Sample Prep, uHPLC
- Difficult to Filter Solutions
- Fuel Hydraulic Fluids and Machined Parts

Regenerated Cellulose (RC)

Hydrophilic membrane. Resistant to a very wide range of solvents. Suitable for use with either aqueous solutions or organic solvents. Compatible with HPLC solvents. Very low protein binding capacity and hence excellent for protein recovery applications.

Applications

- Filtration of Aqueous and Organic Solutions
- Analytical Sample Prep, uHPLC

Detailed Application: Extremely versatile can be used with almost any laboratory procedure. Hydrophilic, solvent-resistant membrane. Extremely chemically resistant : suitable for use with aqueous solutions and resistant to a very wide range of solvents. Compatible with HPLC solvents: for simple, rapid and reliable ultra cleaning of samples for the HPLC or GC analysis. Chemically resistant with both aqueous and organic samples. Very low binding coefficient.

Polyethylene (PE)

An "Universal" Filter for all analytical filtration requirements. For aqueous and aggressive organic solvent filtration. Highly recommended for filtering HPLC samples: HPLC sample preparation requiring low detection levels. Wide application in sample preparation. Ion chromatography.

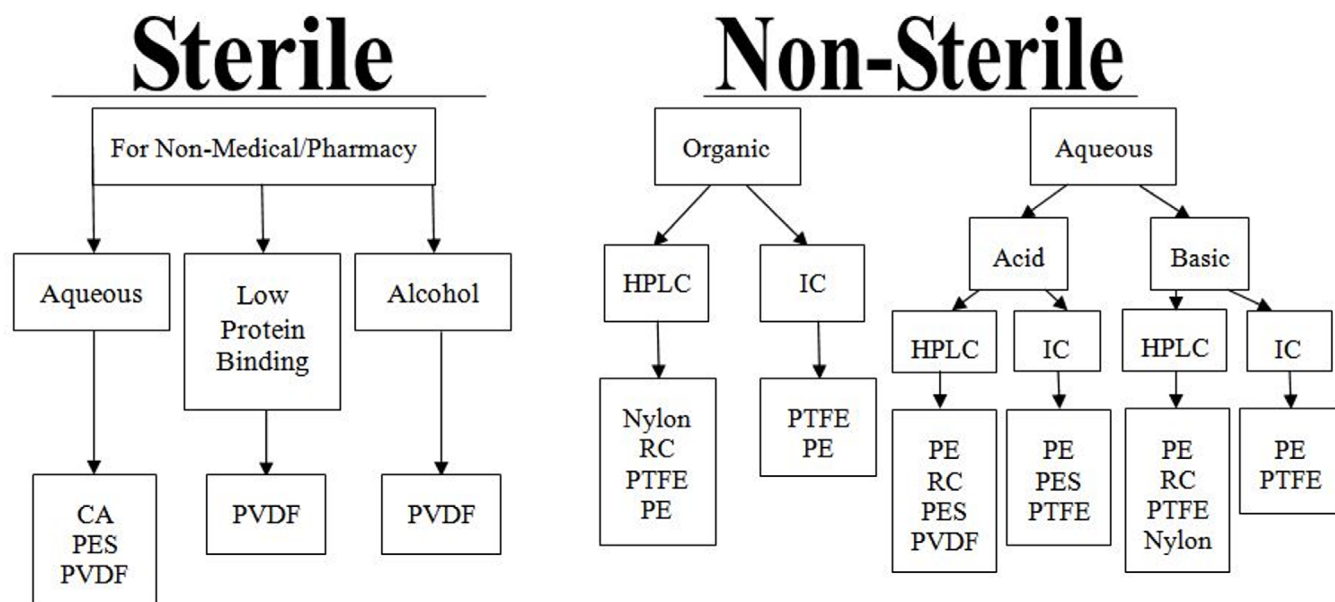
Polypropylene (PP)

An "Universal" Filter for all analytical filtration requirements. For aqueous and aggressive organic solvent filtration. Highly recommended for filtering HPLC samples: HPLC sample preparation requiring low detection levels. Wide application in sample preparation. Ion chromatography. Polypropylene membrane filters are composed of pure polypropylene with absolute pore size ratings. These filters offer broad chemical compatibility allowing its use with aqueous and organic solvents samples. The polypropylene filter has extremely low extractable levels designed to provide accurate, consistent analysis results for sensitive ion chromatography applications while prolonging column life.



Syringe - Filter Applications

- Aqueous and organic solvent filtration
- HPLC sample preparation requiring low detection levels
- Ion chromatography
- Total digest for heavy metals



Types of Filter Paper

Qualitative filter paper

Standard qualitative filter papers are suitable for quadrant folded or gravity flow applications. These grades contain a high level of alpha-cellulose that provides high purity but will weaken when wet.

Quantitative filter paper

These standard ashless grades are high purity filter papers suitable for routine quantitative gravimetric techniques and in the preparation of samples for use in analysis involving instrumental techniques.

These specialty treated hardened ashless grades are available for critical quantitative analytical techniques requiring increased wet-strength and handling capacity. These high purity filter papers have a tough, smooth surface free of loose fibers and are ideal for collecting wet precipitates.

Pleated (Fluted) Filter paper

Standard pleated grades meet your needs with rapid flow rates for filtration of viscous materials to grades with tight matrices for removal of fine precipitates.

Glass Microfiber Filters

Standard glass microfiber filters contain no binders or other additives that may cause interference to sensitive enzymatic or other chemical reactions.

Looking for Special Test Paper?

We also have:

Asphalt
Sugar
Beer
Phase Separation

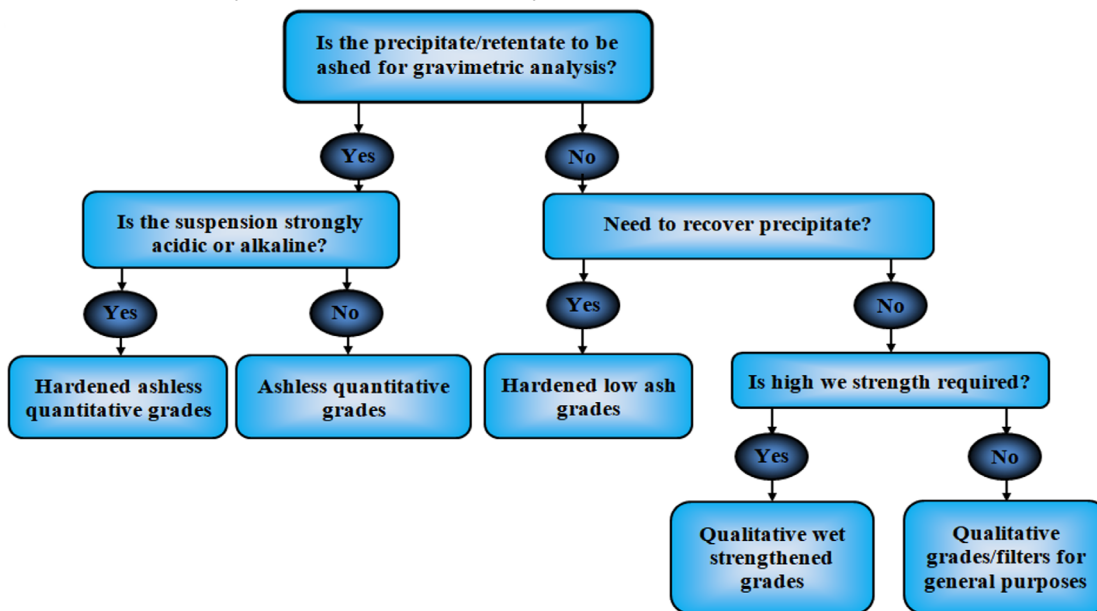
Seed
Pulp and Paper Blotting
Micro-Quartz Fiber Filters
TCLP Filter paper

And more!

Typical Properties of Filter Papers and Glass Fiber Filters

Flow rate, particle retention and thickness are some of the aspects you need to consider when choosing the most suitable filter paper for your application. The selection tree and tables on this page help you identify the appropriate product.

1. Use the decision tree below to identify the filter paper that meets your needs.



2. Use the tables in the tabs below to choose the most suitable product for your filtration needs. The tables provide overviews of typical properties of different types of filter papers and glass fiber filters.

Ashless quantitative filter papers

Grade	Nominal Thickness (µm)	Nominal Basis Weight (g/m ²)	Nominal Ash Content*	Typical Water Flow Rate (normalised for 9 cm diameter)**	Typical Particle Retention in Liquid at 98% Efficiency (µm)***
40	210	95 g/m ²	0.007%	25 ml/min	8
41	215	85	0.007%	254 ml/min	20
42	200	100	0.007%	5 ml/min	2.5
43	220	95	0.007%	62 ml/min	6
44	176	80	0.007%	11 ml/min	3
589/1****	190	80	0.01%		12 to 25
589/2****	180	85	0.01%		4 to 12
589/3****	160	84	0.01%		< 2

Hardened ashless quantitative filter papers

Grade	Nominal Thickness (µm)	Nominal Basis Weight (g/m ²)	Nominal Ash Content ¹	Typical Water Flow Rate (normalised for 9 cm diameter)**	Typical Particle Retention in Liquid at 98% Efficiency (µm)***
540	160	85	0.005%	97 ml/min	8
541	155	78	0.005%	359 ml/min	22
542	150	96	0.005%	13 ml/min	2.7

Hardened low ash quantitative filter papers

Grade	Nominal Thickness (µm)	Nominal Basis Weight (g/m ²)	Nominal Ash Content*	Typical Water Flow Rate (normalised for 9 cm diameter)**	Typical Particle Retention in Liquid at 98% Efficiency (µm)***
50	115	96	0.015%	10 ml/min	2.7
52	175	96	0.015%	66 ml/min	7
54	185	90	0.015%	453 ml/min	22

*Ash content is determined by ignition of the cellulose filter at 900°C in air

**Measured under gravity for comparative purposes

***Particle retention rating at 98% efficiency

****Please note that this data may be based on historic performance, which was established before Whatman was acquired by GE Healthcare.



GLASSWARE

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With such a wide selection of products from multiple manufacturers, not all options are listed here. If you do not see a product which meets the specifications you need, please feel free to contact us.

BEAKERS**KIMAX® Low Form Griffin Glass**

Glass beakers offer excellent mechanical strength and durability, while providing high resistance to chemical attack and thermal shock. They have been a staple in research laboratories for many generations. Thick, slightly flared, beaded top, with a spout designed to have excellent pouring characteristics. Improved mechanical and thermal properties result from the uniform sidewall and bottom thickness design. Suitable for use on a hotplate. All sizes have a durable matte finish marking area for use with an ordinary pencil. Easy-to-read white graduated scale for measuring and/or mixing liquids is provided on all sizes from 20 to 4000mL.

Ref: ASTM Method D2070

Design meets ASTM Specification E960, Type I requirements.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
B262-104	100mL	12/pk	\$92.35	48/cs	\$249.14
B262-105	150mL	12/pk	\$88.40	48/cs	\$238.47
B262-106	250mL	12/pk	\$88.40	48/cs	\$238.47
B262-107	400mL	12/pk	\$106.95	48/cs	\$188.51
B262-108	600mL	6/pk	\$99.34	36/cs	\$267.98
B262-110	1000mL	6/pk	\$124.40	24/cs	\$335.58
B262-112	2000mL	4/pk	\$164.45	8/cs	\$221.81
B262-113	4000mL	1/pk	\$130.17	6/cs	\$526.72

Low-Expansion Borosilicate Glass

These beakers are made from low-expansion borosilicate glass. Beakers feature heavy and uniform wall thickness, spouts designed for easy pouring and beaded tops. The 20mL and larger sizes also have a double graduated metric scale and a marking area.

Tolerance for beakers is approximately +/- 5%.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
B724-864	100mL	12/pk	\$54.95	48/cs	\$219.80
B724-867	150mL	12/pk	\$59.19	48/cs	\$236.76
B724-872	250mL	12/pk	\$62.48	48/cs	\$249.92
B724-875	400mL	12/pk	\$80.04	48/cs	\$320.16
B724-881	600mL	6/pk	\$58.59	36/cs	\$351.54
B724-876	4000mL	1/pk	\$86.32	6/cs	\$517.92

Low Form Heavy Duty Beakers

KIMAX® Low Form Heavy Duty glass "thick wall" beakers offer superior mechanical strength and durability. Improved safety when used under extreme conditions such as mechanized washing and rough handling.

- Thick uniform walls throughout and extra wall thickness built into the evenly tooled top rim
- Durable matte finish marking area
- White graduated scale
- Design meets ASTM Specification E960, Type II requirements
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Alert: Not recommended for use on hotplates where significant thermal gradients exist due to lack of agitation of contents or absence of a temperature control.



Part No.	Capacity	Qty/pk	List/pk	Qty/cs	List/cs
B262-350	250mL	12/pk	\$164.66	48/cs	\$441.19
B262-351	400mL	12/pk	\$214.76	48/cs	\$579.34
B262-352	600mL	6/pk	\$125.15	36/cs	\$506.42
B262-353	1000mL	6/pk	\$238.76	24/cs	\$644.09
B262-354	2000mL	4/pk	\$325.35	8/cs	\$438.84
B262-355	4000mL	1/pk	\$158.85	4/cs	\$428.51

Beaker Tongs

Beaker tongs open to 7" and feature strong zinc-plated steel construction with flat riveted joints and vinyl coated sleeves. Tongs can handle beakers from 50mL to 1500mL capacity. Overall length is 9.75".



Part No.	Description	Qty	List
C221-980	Beaker Tongs	1/ea	\$9.933



Tall Form Berzelius Beakers

KIMAX® Berzelius glass tall beakers offer excellent mechanical strength and durability, while providing high resistance to chemical attack and thermal shock. Ideal for use when performing titrations.

- All sizes have a durable matte finish area for marking with an ordinary pencil
- Easy-to-read white double capacity scales to indicate approximate volumes
- Design for 14020 series meets ASTM Specification E960, Type IV requirements and does not include a spout
- Design for 14030 series meets ASTM Specification E960, Type III requirements and includes a spout
- Ref: ASTM Method D94
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part No.	Capacity	Feature	Qty/pk	List/pk	Qty/cs	List/cs
G535-040	100mL	n/a	n/a	n/a	12/cs	\$98.09
G535-042	200mL	n/a	n/a	n/a	12/cs	\$88.77
G535-043	300mL	n/a	n/a	n/a	12/cs	\$113.09
G535-044	400mL	n/a	n/a	n/a	6/cs	\$63.05
G535-045	600mL	n/a	n/a	n/a	6/cs	\$79.86
G535-041	1000mL	n/a	n/a	n/a	6/cs	\$148.19
G535-046	100mL	Spout	12/pk	\$108.16	48/cs	\$291.77
G535-047	200mL	Spout	12/pk	\$114.84	48/cs	\$309.79
G535-048	300mL	Spout	12/pk	\$128.20	48/cs	\$345.84
G535-049	400mL	Spout	6/pk	\$69.41	36/cs	\$280.88
G535-050	600mL	Spout	6/pk	\$99.04	24/cs	\$267.16
G535-051	1000mL	Spout	6/pk	\$134.70	18/cs	\$272.54

VEE GEE®, Griffin, Low Form, Double Scale, Graduated

This series of beakers meet ASTM E-960 Type I Specifications for classification, design, capacity & dimensions and markings.

These beakers feature easy-pour spouts, white, permanent graduations and large marking squares. Made from high-quality borosilicate glass with a low coefficient of expansion. Manufactured with uniform wall thickness resulting in the optimum balance between thermal shock resistance and mechanical strength. Accuracy: ±5% of full capacity.



Part No.	Capacity	Qty	List
B115-016	10mL	12/pk	\$23.20
B115-017	20mL	12/pk	\$30.68
B115-018	30mL	12/pk	\$32.27
B115-019	50mL	12/pk	\$40.53
B115-020	100mL	12/pk	\$44.00
B115-022	250mL	12/pk	\$45.33
B115-021	150mL	12/pk	\$50.13
B115-023	400mL	12/pk	\$57.33
B115-024	600mL	6/pk	\$34.00
B115-025	1000mL	6/pk	\$78.40

Beakers, Berzelius, Tall Form, Borosilicate Glass

Tall form Berzelius beakers include a spout. These beakers are made from low-expansion borosilicate glass. Beakers feature heavy and uniform wall thickness, spouts designed for easy pouring and beaded tops. Also include white printed graduations and a marking area. Tolerance for beakers is approximately +/- 5%.

Part No.	Capacity	Feature	Qty	List
B724-888	100mL	Spout	12/pk	\$68.60
B724-890	200mL	Spout	12/pk	\$72.13
B724-891	250mL	Spout	12/pk	\$70.43
B724-892	300mL	Spout	12/pk	\$75.94
B724-893	400mL	Spout	6/pk	\$56.58
B724-894	500mL	Spout	6/pk	\$54.17
B724-895	600mL	Spout	6/pk	\$118.17
B724-889	1000mL	Spout	6/pk	\$95.14
B724-885	100mL	n/a	12/pk	\$65.03
B724-886	250mL	n/a	12/pk	\$72.73
B724-887	500mL	n/a	6/pk	\$56.30



BOTTLES

BOD

Disposable Biochemical Oxygen Demand (B.O.D.) Bottles

EPA Approved.

Lightweight unbreakable and recyclable disposable bottles offer safety as well as convenience. Bottles are formed from PET resin the most easily recycled plastic available. Simply use once and toss into the recycling bin.

These disposable bottles have an amorphous carbon coating which keeps oxygen from diffusing into or out of your sample. Bottles provide uniform blanks high standard recoveries and quality test data.

Capacity: 300mL; 5.50" H X 2.50" W

Bottles come packaged and are consecutively numbered. Stoppers are sold separately.

This product complies with the following methods:

- SM 5210B
- USGS I-1578-78
- DIN EN 1899-2
- ISO 5815-1:2003
- BS IS 3025-44-1993



Part No.	Description	Qty	List
F895-012	Disposable BOD Bottle, 300mL	100/cs	CALL

BOD Bottle, Unnumbered, Glass Robotic Stopper

- Cap/ Closure Size: Stopper
- Capacity (mL or oz.): 300mL or 10oz.
- Bottle Color: Clear
- Number Sequence: Unnumbered



Part No.	Description	Qty	List
G546-302	165 X 69mm, Type I Borosilicate Glass	24/cs	\$409.23

BOD Bottles, Borosilicate Glass

BOD Bottles for incubating diluted samples of clean, waste, effluent and polluted water during the 5-day biochemical oxygen demand (BOD) test.

Bottles are unnumbered and feature a penny head stopper.



Part No.	Description	Qty	List
B724-993	60mL, Unnumbered	36/pk	\$700.27
B724-995	300mL, Unnumbered	24/pk	\$597.07

BOD Bottles, Numbered, Borosilicate Glass

BOD Bottles for incubating diluted samples of clean, waste, effluent and polluted water during the 5-day biochemical oxygen demand (BOD) test. Bottles are numbered to allow for convenient organization of samples. 300mL bottles also include a bar code. Glass robotic stoppers are included. Available in series of numbers from 1 through 432 in increments of 36 (60mL size) or 24 (300mL size). Please specify series of numbers when placing your order.



Part No.	Description	Qty	List
B724-994	60mL, Numbered	36/pk	\$781.33
B724-996	300mL, Numbered and Barcoded	24/pk	\$899.80

BOD Bottles, 60mL

- Cap/ Closure Size: Glass Robotic Stopper
- Capacity (mL or oz.): 60mL
- Bottle Color: Clear
- Number Sequence: Unnumbered
- Glass: Type I Borosilicate
- H x D: 115 x 43mm



Part No.	Description	Qty	List
G546-292	60mL BOD Bottle	36/cs	\$887.24



BOD Bottle Accessories

Cap and Insert for BOD Bottle

This polyethylene cap, complete with a closed cell foam insert, snaps firmly over the flared mouth of Wheaton BOD bottles. This closure prevents the evaporation of the water seal during the five-day BOD incubation period. The foam insert fits into the cap and exerts pressure on the bottle stopper to hold it securely in place.

Polyethylene cap prevents evaporation.

Includes foam insert.



Part No.	Description	Qty	List
G545-405	Snap Cap Closure; Natural; Unlined Cap & Insert	50/cs	\$65.62

BOD Bottle Carrier

Part No.	Description	Qty	List
B724-997	BOD Bottle Carrier	1/pk	\$47.27



BOD Analysis Seeds

Cost effective, easy-to-use capsules. Consistent results and free of microorganisms. Formulated to yield test results that meet the guidelines set forth in The Standard Methods for Examination of Water and Wastewater.

Non-pathogenic.

Part No.	Description	Shelf Life	Qty	List
B301-110	PolySeed Inoculator	2 years	50/pk	\$142.22



BOD Analysis Seeds

Cost effective CBOD analysis. A blend of specialized microbial cultures containing a chemical additive for the inhibition of nitrifying bacteria in wastewater samples. Designed to provide a standard seed source for the degradation of both industrial and municipal waste in CBOD testing.

Part No.	Description	Shelf Life	Qty	List
B301-210	PolySeed NX	2 years	50/pk	\$200.00

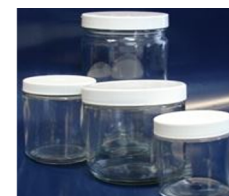


Wide Mouth

Wide Mouth - Precleaned - Straight Sided Short

Wide Mouth bottles can be used for Semivolatiles, Oil and Grease, Pesticides and Metals sampling. Wide Mouth bottles can also be used for Volatiles Soil Media sampling.

Part No.	Cap Size	Size	Qty	List
B102-060	53mm	60mL	24/cs	\$71.43
B102-125	58mm	125mL	24/cs	\$50.92
B102-250	70mm	250mL	24/cs	\$80.02
B102-216	89mm	500mL	12/cs	\$60.91
B102-032	n/a	1000mL	12/cs	\$55.45



Standard Amber Glass Wide Mouth Packers

Assembled with White Polypropylene Closure, .015" PTFE Lined

CLASS 1: (Standard) Containers are assembled with liner and closure, without washing treatment.

Part No.	Description	Qty	List
B780-177	1/2oz., 15cc, 28-400mm	24/cs	\$43.75
B780-178	1oz., 30cc, 28-400mm	24/cs	\$53.26
B780-179	2oz., 60cc, 33-400mm	24/cs	\$47.56
B780-180	4oz., 120cc, 38-400mm	24/cs	\$54.21
B780-181	8oz., 250cc, 45-400mm	24/cs	\$65.63
B780-182	16oz., 500cc, 53-400mm	12/cs	\$39.95
B780-183	32oz., 950cc, 53-400mm	12/cs	\$58.97
B780-184	80oz., 2500cc, 70-400mm	4/cs	\$68.48



Pre-cleaned Amber Glass Wide Mouth Packers

Assembled with white polypropylene closure, .015" PTFE lined.

(Pre-cleaned) Containers are processed according to E.P.A. recommended wash procedures - washed with laboratory-grade biodegradable, non-phosphate detergent; rinsed with ASTM Type I de-ionized water; oven dried; and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a copy of wash "Standard Operating Procedure".



Part No.	Description	Qty	List
B780-185	1/2oz., 15cc, 28-400mm	24/cs	\$58.83
B780-186	1oz., 30cc, 28-400mm	24/cs	\$54.83
B780-187	2oz., 60cc, 33-400mm	24/cs	\$59.30
B780-188	4oz., 120cc, 38-400mm	24/cs	\$69.33
B780-189	8oz., 250cc, 45-400mm	24/cs	\$76.30
B780-190	16oz., 500cc, 53-400mm	12/cs	\$47.56
B780-191	32oz., 950cc, 53-400mm	12/cs	\$65.90
B780-192	80oz., 2500cc, 70-400mm	4/cs	\$81.81

Pre-cleaned and Certified Amber Glass Wide Mouth Packers

Assembled with white polypropylene closure, .015" PTFE lined and certificate of analysis.

(Certified) Containers are processed according to E.P.A. recommended wash procedures - washed with laboratory-grade biodegradable, non-phosphate detergent; rinsed with ASTM Type I de-ionized water; oven dried; and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a "Certificate of Analysis". An independent laboratory is used to certify the container's cleanliness, assuring impartial results.



Part No.	Description	Qty	List
B780-194	1oz., 30cc, 28-400mm	24/pk	\$79.89
B780-195	2oz., 60cc, 33-400mm	24/pk	\$74.19
B780-196	4oz., 120cc, 38-400mm	24/pk	\$73.24
B780-197	8oz., 250cc, 45-400mm	24/pk	\$92.26
B780-198	16oz., 500cc, 53-400mm	12/pk	\$55.16
B780-199	32oz., 950cc, 53-400mm	12/pk	\$74.19

Boston Round

Clear Boston Round Bottles - Convenience Packs (Caps Attached)

Kimble® Clear Boston Rounds are made from Type III soda-lime glass and have a narrow-mouth design. Clear bottles allow for viewing of contents. They come with a variety of caps and liner combinations and are designed to protect the quality of liquids and for product storage.

Helps to eliminate waste and insures product integrity for long term storage

Choose from a variety of cap / liner combinations, caps attached

Manufactured from soda-lime glass conforming to USP Type III and ASTM E438, Type II requirements



Part No.	Capacity	Height	OD	Cap Liner	GPI Finish	Qty	List
G536-560	30mL (1oz.)	79mm	31mm	Pulp / Vinyl	20-400	48/cs	\$134.00
G536-567	60mL (2oz.)	94mm	39mm	Pulp / Vinyl	20-400	24/cs	\$72.00
G536-575	125mL (4oz.)	112mm	48mm	Pulp / Vinyl	22-400	24/cs	\$82.00
G536-582	250mL (8oz.)	136mm	60mm	Pulp / Vinyl	24-400	12/cs	\$65.00
G536-589	500mL (16oz.)	168mm	75mm	Pulp / Vinyl	28-400	12/cs	\$64.00
G536-605	1000mL (32oz.)	206mm	94mm	Pulp / Vinyl	33-400	12/cs	\$40.93
G536-590	500mL (16oz.)	168mm	75mm	Solid PE	28-400	12/cs	\$74.00
G536-606	1000mL (32oz.)	206mm	94mm	Solid PE	33-400	12/cs	\$102.00
G536-591	500mL (16oz.)	168mm	75mm	White Rubber	28-400	12/cs	\$79.00
G536-607	1000mL (32oz.)	206mm	94mm	White Rubber	33-400	12/cs	\$86.00
G536-561	30mL (1oz.)	79mm	31mm	Polyethylene Cone	20-400	48/cs	\$149.00
G536-568	60mL (2oz.)	94mm	39mm	Polyethylene Cone	20-400	24/cs	\$34.98
G536-576	125mL (4oz.)	112mm	48mm	Polyethylene Cone	22-400	24/cs	\$38.49
G536-583	250mL (8oz.)	136mm	60mm	Polyethylene Cone	24-400	12/cs	\$36.65
G536-592	500mL (16oz.)	168mm	75mm	Polyethylene Cone	28-400	12/cs	\$29.74
G536-608	1000mL (32oz.)	206mm	94mm	Polyethylene Cone	33-400	12/cs	\$66.09
G536-562	30mL (1oz.)	79mm	31mm	PTFE-Faced LDPE Foam	20-400	48/cs	\$64.86
G536-569	60mL (2oz.)	94mm	39mm	PTFE-Faced LDPE Foam	20-400	24/cs	\$35.65
G536-577	125mL (4oz.)	112mm	48mm	PTFE-Faced LDPE Foam	22-400	24/cs	\$40.54
G536-584	250mL (8oz.)	136mm	60mm	PTFE-Faced LDPE Foam	24-400	12/cs	\$28.42
G536-593	500mL (16oz.)	168mm	75mm	PTFE-Faced LDPE Foam	28-400	12/cs	\$35.77
G536-609	1000mL (32oz.)	206mm	94mm	PTFE-Faced LDPE Foam	33-400	12/cs	\$53.58
G536-593	500mL (16oz.)	168mm	75mm	PTFE-Faced LDPE Foam	28-400	12/cs	\$35.77
G536-609	1000mL (32oz.)	206mm	94mm	PTFE-Faced LDPE Foam	33-400	12/cs	\$53.58



Clear Glass Boston Round Bottles

Precleaned in Accordance with Recommended EPA Protocol - Class 2
White Closure, PTFE Lined



Part No.	Description	Qty	List
B780-055	1oz., 30mL, 20-400mm Thread	24/cs	\$50.97
B780-057	2oz., 60mL, 20-400mm Thread	24/cs	\$57.90
B780-059	4oz., 125mL, 22-400mm Thread	24/cs	\$64.83
B780-061	8oz., 250mL, 24-400mm Thread	12/cs	\$39.53
B780-063	16oz., 500mL, 28-400mm Thread	12/cs	\$50.63
B780-065	32oz., 1000mL, 33-400mm Thread	12/cs	\$66.77

Amber Glass Boston Round Bottles

Precleaned in Accordance with Recommended EPA Protocol - Class 2
White Closure, PTFE Lined



Part No.	Description	Qty	List
B780-056	1oz., 30mL, 20-400mm Thread	24/cs	\$54.43
B780-058	2oz., 60mL, 20-400mm Thread	24/cs	\$58.10
B780-060	4oz., 125mL, 22-400mm Thread	24/cs	\$64.83
B780-062	8oz., 250mL, 24-400mm Thread	12/cs	\$39.53
B780-064	16oz., 500mL, 28-400mm Thread	12/cs	\$50.30
B780-066	32oz., 1000mL, 33-400mm Thread	12/cs	\$65.87

Clear Glass Boston Round Bottles

Precleaned and Certified in Accordance with Recommended EPA Protocol - Class 3
White Closure, PTFE Lined



Part No.	Description	Qty	List
B780-069	1oz., 30mL, 20-400mm Thread	24/cs	\$65.21
B780-071	2oz., 60mL, 20-400mm Thread	24/cs	\$70.08
B780-073	4oz., 125mL, 22-400mm Thread	24/cs	\$79.89
B780-075	8oz., 250mL, 24-400mm Thread	12/cs	\$49.46
B780-077	16oz., 500mL, 28-400mm Thread	12/cs	\$54.78
B780-079	32oz., 1000mL, 33-400mm Thread	12/cs	\$71.90

Amber Glass Boston Round Bottles

Precleaned and Certified in Accordance with Recommended EPA Protocol - Class 3
White Closure, PTFE Lined



Part No.	Description	Qty	List
B780-070	1oz., 30mL, 20-400mm Thread	24/cs	\$65.21
B780-072	2oz., 60mL, 20-400mm Thread	24/cs	\$70.08
B780-074	4oz., 125mL, 22-400mm Thread	24/cs	\$79.89
B780-076	8oz., 250mL, 24-400mm Thread	12/cs	\$49.46
B780-078	16oz., 500mL, 28-400mm Thread	12/cs	\$54.78
B780-080	32oz., 1000mL, 33-400mm Thread	12/cs	\$71.90

Types of Glass Classes

Standard: Containers are assembled with liner and closure without washing treatment.

Precleaned: Containers are processed according to EPA recommended wash procedures. Washed with laboratory grade biodegradable, non-phosphate detergent, rinsed with ASTM Type I De-ionized water, oven dried and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a copy of wash "Standard Operating Procedure."

Certified: Containers are processed according to EPA recommended wash procedures. Washed with laboratory grade biodegradable, non-phosphate detergent, rinsed with ASTM Type I De-ionized water, oven dried and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a "Certificate of Analysis."

Dropper Bottles

Amber Dropping Bottle

Designed to protect contents from UV rays and ideal for light-sensitive products.
Supplied with 20-400 GPI screw cap, bulb and glass dropper assembled on the bottle



w/1mL Glass Dropper

Part No.	Capacity	Height x OD	Qty	List
G535-135	1oz (30mL)	102mm x 31mm	12/cs	\$54.81
G535-136	2oz (60mL)	118mm x 39mm	12/cs	\$58.26

w/1mL Plastic Dropper

Part No.	Capacity	Height x OD	Qty	List
G535-137	1oz (30mL)	102mm x 31mm	12/cs	\$259.77
G535-138	2oz (60mL)	118mm x 39mm	12/cs	\$50.19

Clear Dropping Bottles w/1mL Glass Standard Taper Pipet Dropper

The dropper bottle is designed for general purpose use and for determining the oil absorption of pigments (ASTM D281).
Provided with a medium length Standard Taper pipet dropper and a rubber nipple
The 30 and 60mL sizes are designed from Federal Specification A-A-5134 requirements
The 125mL size is manufactured from USP Type 1 borosilicate molded glass and all others are manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part No.	Capacity	Height	OD	Joints	Qty	List
G535-129	0.5oz (15mL)	95mm	32mm	12/18	12/cs	\$572.61
G535-130	1oz (30mL)	113mm	35mm	12/18	12/cs	\$588.39
G535-131	2oz (60mL)	120mm	46mm	12/18	12/cs	\$650.77
G535-132	4oz (125mL)	150mm	55mm	19/22	12/cs	\$888.09

Clear Glass Round Dropper Bottles w/Attached Cap

Attached Cap: Black Polypropylene Plastic Dropper Assembly



Part No.	Capacity/Size	Neck Finish	Qty	List
B427-424	1oz (30mL) / 31 x 79mm	40-400	8/cs	\$89.91
B427-425	2oz (60mL) / 39 x 94mm	40-400	24/cs	\$59.84
B427-427	4oz (120mL) / 48 x 112mm	22-400	24/cs	\$71.38

Amber Glass Round Dropper Bottles w/Attached Cap

Attached Cap: Black Polypropylene Plastic Dropper Assembly
Neck Finish: 20-400



Part No.	Capacity/Size	Neck Finish	Qty	List
B427-426	2oz (60mL) / 39 x 94mm	20-400	24/cs	\$65.71
B427-428	4oz (120mL) / 48 x 112mm	22-400	24/cs	\$82.22

Barnes Dropping Bottle, 30mL, Glass

Square-shaped, clear flint glass bottles with glass pipet and rubber bulb stopper.
Capacity 30mL.
Replacement pipets also available.



Part No.	Description	Qty	List
B724-999	Dropping Bottle, w/ Pipet & Rubber Bulb	1/ea	\$1.78
B725-117	Dropping Bottle, w/ Pipet & Rubber Bulb	36/pk	\$85.33
B725-010	Replacement Pipets & Bulbs	12/pk	\$6.61
C221-982	Replacement Bulbs	12/pk	\$4.60



HPLC Bottle Systems

Safety System 3 - PBT Solvent Bottle Adapter

Safety System 3 is a unique Solvent Bottle Adapter that is made from PBT and converts ULTRAWARE® GL-45 mobile phase caps to standard 4L solvent bottles for direct connection to your HPLC pump. It is also available without the solvent bottle-to-GL-45 thread adapter.

Eliminates the safety hazards of aluminum foil-wrapped solvent containers.

ULTRA-WARE® Economy Three Hole Cap is manufactured from PTFE with a TFE/propylene o-ring and a polypropylene screw collar.

Three connecting threads on top of the cap use standard 1/4"-28 flangeless fittings.

Two ports have 1/8" through-holes for connection to the inlet / sparge filter.

The third port has a 1/16" through-hole used as a vent port during sparging.

Included with your Safety System 3 is the unique Bottom-of-the-Bottle™ Inlet/ Sparge Filter.

The filter combines the functions of an inlet filter with a sparger in a single, convenient device.

Sparging bubbles are prevented from entering the mobile phase stream while allowing the pump to draw all but a few milliliters of solvent from the reservoir or bottle.

All PEEK construction makes it ideal for virtually all mobile phases

Supplied with 2µm porosity frits and connections for 1/8" OD tubing.

Each Safety System 3 consists of the following:

- G539-554 1 ea. Economy 3-Hole Cap, GL-45
- G539-545 1 ea. Solvent Bottle Adapter, GL-45 (included with G539-589 only)
- G539-569 1 ea. Combination Inlet / Sparge Filter, 2µm, PEEK™
- G536-135 2 ea. Flangeless Nut, ETFE, 1/4"-28 x 1/8"
- G536-141 2 ea. Flangeless Ferrule, ETFE, 1/8" (Optional)
- G539-553 1 ea. Vent Port Plug, ETFE, 1/4"-28
- G536-146 1 ea. Tubing, FEP PTFE, 1/8" OD x 1/16" ID x 10'

Part No.	Description	Qty	List
G539-589	W/ GL 45 to Solvent Bottle Adapter	1/ea	\$339.63
G539-590	W/O GL 45 Bottle Adapter	1/ea	\$229.54



ULTRA-WARE® Economy Cap Systems

The cap body is manufactured from PTFE and is supplied with a TFE/propylene o-ring and a polypropylene screw collar.

The connecting threads on the top of the cap use standard 1/4"-28 flangeless fittings.

Two of the ports have 1/8" through-holes; the third port has a 1/16" through-hole.

Assembly instructions included.

ULTRA-WARE® flat bottom reservoirs have a plastic safety coating which blocks virtually all UV light up to 385 nm, preventing photodegradation of light-sensitive mobile phases.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Reservoir Capacity	Qty	List
G539-591	1000mL	1/ea	\$421.37
G539-593	2000mL	1/ea	\$471.63
G539-594	5000mL	1/ea	\$808.12
G539-592	10000mL	1/ea	\$1007.58



Accessories



Part No.	Description	Qty	List
G539-554	Economy 3 Hole Cap	1/ea	\$92.33
G539-545	Solvent Bottle Adapter	1/ea	\$154.00
G536-146	1/8" FEP Tubing	1/ea	\$57.47

Media/Reagent Bottles

GL 45 Media Bottles Starter Pack

Enhanced graduations and marking spot made with chemically resistant white enamel paint.
30mm ID opening; Autoclavable

Supplied with linerless GL 45 screw thread caps.

Replaceable clear (natural) drip-free polypropylene pour ring is included on each bottle.

The pack consists of two 100mL, three 250mL, three 500mL and two 1000mL bottles.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

Cap Material: Blue Polypropylene



Capacity	Graduation Range (mL)	Graduation Intervals (mL)	Height (mm)	OD (mm)
100 (2 included)	20 to 80	10	100	56
250 (3 included)	50 to 200	25	138	70
500 (3 included)	100 to 400	50	176	86
1000 (2 included)	100 to 900	50	225	101

Part No.	Description	Qty	List
G538-316	Starter Pack	1/pk	\$121.00

GL 45 Media Bottles

Ideal for general laboratory use including mixing, storing or transporting culture media, chemicals or solvents.

Enhanced graduations and marking spot made with chemically resistant white enamel paint.

30mm ID opening; Autoclavable

Supplied without caps or with linerless GL 45 screw thread caps.

Replaceable clear (natural) drip-free polypropylene pour ring is included on each bottle.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

Cap Material: Blue Polypropylene



Part No.	Capacity (mL)	Grad. Range	Height	OD	Qty	List
G535-058	100	20-80mL	100mm	56mm	10/cs	\$89.00
G538-059	250	50-200mL	138mm	70mm	10/cs	\$97.95
G538-060	500	00-400mL	176mm	86mm	10/cs	\$119.07
G538-061	1000	100-900mL	225mm	101mm	10/cs	\$142.58
G538-062	2000	400-1800mL	260mm	136mm	4/cs	\$150.14

Media / Storage Bottles, Borosilicate Glass

These borosilicate glass general purpose media bottles are autoclavable with permanent white imprinted graduations and marking spots. The screw thread opening has an I.D. of approximately 30mm.

The supplied GL 45 cap is liner-less and both the cap and drip-free ring are polypropylene and autoclavable to 140°C.

Maximum use temperature of bottles is 450°C.



Part No.	Capacity (mL)	Grad. Range (mL)	O.D. x Height	Qty	List
B724-897	100	20 - 80	56 x 100mm	10/pk	\$148.27
B724-898	250	50 - 200	70 x 138mm	10/pk	\$166.51
B724-899	500	100 - 400	86 x 175mm	10/pk	\$180.64
B724-990	1000	100 - 900	101 x 225mm	10/pk	\$272.69
B724-991	2000	400 - 1800	136 x 262mm	4/pk	\$183.39

Media / Storage Bottles, Amber, Borosilicate Glass

Designed for storing and transporting light sensitive materials, amber media / solutions bottles are autoclavable with permanent white imprinted graduations and marking spots. The supplied GL 45 cap is liner-less and both the cap and drip-free ring are polypropylene and autoclavable to 140°C. Maximum use temperature of bottles is 450°C.



Part No.	Capacity (mL)	Grad. Range (mL)	O.D. x Height	Qty	List
B725-098	100	40 - 80	56 x 105mm	10/cs	\$272.00
B725-099	250	50 - 200	70 x 143mm	10/cs	\$346.00
B725-100	500	100 - 400	86 x 182mm	10/cs	\$541.33
B725-101	1000	100 - 900	101 x 203mm	10/cs	\$818.00

Straight Sided**Standard Clear Short Straight Sided Wide Mouth Jars**

Assembled with white polypropylene closure, .015" PTFE lined.

(Standard) Containers are assembled with liner and closure, without washing treatment.

Part No.	Description	Qty	List
B780-081	2oz., 60mL Clear Jar, 53-400mm Thread	24/cs	\$57.07
B780-082	4oz., 125mL Clear Jar, 58-400mm Thread	24/cs	\$64.68
B780-083	8oz., 250mL Clear Jar, 70-400mm Thread	24/cs	\$83.70
B780-084	16oz., 500mL Clear Jar, 89-400mm Thread	12/cs	\$57.07
B780-085	32oz., 1000mL Clear Jar, 89-400mm Thread	12/cs	\$79.89

**Precleaned Clear Short Straight Sided Wide Mouth Jars**

Assembled with white polypropylene closure, .015" PTFE lined.

(Pre-cleaned) Containers are processed according to E.P.A. recommended wash procedures - washed with laboratory-grade biodegradable, non-phosphate detergent; rinsed with ASTM Type I de-ionized water; oven dried and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a copy of wash "Standard Operating Procedure".

Part No.	Description	Qty	List
B780-086	2oz., 60mL Clear Jar, 53-400mm Thread	24/cs	\$57.07
B780-087	4oz., 125mL Clear Jar, 58-400mm Thread	24/cs	\$64.68
B780-088	8oz., 250mL Clear Jar, 70-400mm Thread	24/cs	\$83.70
B780-089	16oz., 500mL Clear Jar, 89-400mm Thread	12/cs	\$57.07
B780-090	32oz., 1000mL Clear Jar, 89-400mm Thread	12/cs	\$79.89

**Precleaned and Certified Clear Short Straight Sided Wide Mouth Jars**

Assembled with white polypropylene closure, .015" PTFE lined and Certificate of Analysis.

(Certified) Containers are processed according to E.P.A. recommended wash procedures - washed with laboratory-grade biodegradable, non-phosphate detergent; rinsed with ASTM Type I de-ionized water; oven dried and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a "Certificate of Analysis". An independent laboratory is used to certify the container's cleanliness, assuring impartial results.

Part No.	Description	Qty	List
B780-091	2oz., 60mL Clear Jar, 53-400mm Thread	24/cs	\$68.33
B780-092	4oz., 125mL Clear Jar, 58-400mm Thread	24/cs	\$75.60
B780-093	8oz., 250mL Clear Jar, 70-400mm Thread	24/cs	\$88.77
B780-094	16oz., 500mL Clear Jar, 89-400mm Thread	12/cs	\$64.83
B780-095	32oz., 1000mL Clear Jar, 89-400mm Thread	12/cs	\$86.37

**Standard Clear Tall Straight Sided Wide Mouth Jars**

Assembled with white polypropylene closure, .015" PTFE lined.

(Standard) Containers are assembled with liner and closure, without washing treatment.

Part No.	Description	Qty	List
B780-096	4oz., 125mL Clear Tall Jar, 48-400mm Thread	24/cs	\$83.69
B780-097	8oz., 250mL Clear Tall Jar, 58-400mm Thread	12/cs	\$91.31
B780-098	16oz., 500mL Clear Tall Jar, 70-400mm Thread	12/cs	\$100.82
B780-099	64oz., 2000mL Clear Tall Jar, 83-400mm Thread	6/cs	\$72.28
B780-100	128oz., 4000mL Clear Tall Jar, 89-400mm Thread	4/cs	\$95.11

**Precleaned Clear Tall Straight Sided Wide Mouth Jars**

Assembled with white polypropylene closure, .015" PTFE lined.

(Pre-cleaned) Containers are processed according to E.P.A. recommended wash procedures - washed with laboratory-grade biodegradable, non-phosphate detergent; rinsed with ASTM Type I de-ionized water; oven dried and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a copy of wash "Standard Operating Procedure".

Part No.	Description	Qty	List
B780-101	4oz., 125mL Clear Tall Jar, 48-400mm Thread	24/cs	\$79.43
B780-102	8oz., 250mL Clear Tall Jar, 58-400mm Thread	12/cs	\$45.97
B780-103	16oz., 500mL Clear Tall Jar, 70-400mm Thread	12/cs	\$45.57
B780-104	64oz., 2000mL Clear Tall Jar, 83-400mm Thread	6/cs	\$62.10
B780-105	128oz., 4000mL Clear Tall Jar, 89-400mm Thread	4/cs	\$80.23



Precleaned and Certified Clear Tall Straight Sided Wide Mouth Jars

Assembled with white polypropylene closure, .015" PTFE lined and Certificate of Analysis. (Certified) Containers are processed according to E.P.A. recommended wash procedures - washed with laboratory-grade biodegradable, non-phosphate detergent; rinsed with ASTM Type I de-ionized water; oven dried and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a "Certificate of Analysis". An independent laboratory is used to certify the container's cleanliness, assuring impartial results.



Part No.	Description	Qty	List
B780-106	4oz, 125mL Clear Tall Jar, 48-400mm Thread	24/cs	\$78.45
B780-107	8oz, 250mL Clear Tall Jar, 58-400mm Thread	12/cs	\$50.18
B780-108	16oz, 500mL Clear Tall Jar, 70-400mm Thread	12/cs	\$57.14
B780-109	64oz, 2000mL Clear Tall Jar, 83-400mm Thread	6/cs	\$73.31

CONCENTRATORS

Kuderna Danish Apparatus

Kuderna Danish Apparatus with Graduated Concentrator Tube

The Kuderna-Danish apparatus was developed in the laboratories of Julius Hyman and Company for the concentration of trace amounts of sample dissolved in organic solvents. The column is designed to speed evaporation with reduced hold-up. It is very useful in sample preparation before analysis with solvents such as petroleum ether or hexane.

Graduated concentrator tube

For solvent recovery, a Solvent Recovery Apparatus may be added to this unit

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Preparation involves filling the flask to between 40 to 60 percent of capacity. To prevent sample loss initially, column should be pre-wet with about 1mL of the solvent used in the concentration. If solvent is allowed to escape, entire assembly should be set up in a hood. Charged assembly should be placed over a vigorously boiling water bath. Water level should be maintained just below the lower joint and apparatus mounted so that the lower rounded surface of the flask is bathed in steam. Final sample remains in the lower tube for further analysis.

Tube Capacity (mL): 10

Tube Subdivisions (mL): 0-1 in 0.1, 2-10 in 1



Part No.	Flask Capacity	Overall Height	Feature	Qty	List
G536-942	250mL	560mm	Hooks and Springs	1/ea	\$346.23
G536-943	500mL	600mm	Hooks and Springs	1/ea	\$323.98
G536-944	250mL	560mm	Clamp	1/ea	\$346.23
G536-945	500mL	600mm	Clamp	1/ea	\$358.56

Kuderna Danish Apparatus with Ungraduated Concentrator Tube

Ungraduated concentrator tube

Includes a polyacetal clamp

For solvent recovery, a Solvent Recovery Apparatus may be added to this unit

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Preparation involves filling the flask to between 40 to 60 percent of capacity. To prevent sample loss initially, column should be pre-wet with about 1mL of the solvent used in the concentration. If solvent is allowed to escape, entire assembly should be set up in a hood. Charged assembly should be placed over a vigorously boiling water bath. Water level should be maintained just below the lower joint and apparatus mounted so that the lower rounded surface of the flask is bathed in steam. Final sample remains in the lower tube for further analysis.



Part No.	Flask Capacity	Overall Height	Tube Capacity	Qty	List
G536-938	250mL	540mm	10mL	1/ea	\$323.98
G536-939	500mL	620mm	15mL	1/ea	\$347.23



Tubes

Concentrator Tubes

These concentrator tubes are for use with Kuderna-Danish and other concentrators.

May be detached from the complete assembly and stoppered for analysis or storage.

Secure to assembly with Kem-Klamps™ for tubes with hooks or polyacetal Standard Taper clamps.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Feature: Hooks		Standard Taper Joints: 19/22			
Part No.	Capacity	Grad. Intervals (mL)	Height	Qty	List
G536-951	4mL	0-2 in 0.1, 3 and 4	100mm	1/ea	\$85.61
G536-954	15mL	0-1 in 0.1, 2-15 in 1	122mm	1/ea	\$82.91
G536-956	25mL	0-1 in 0.1, 2-25 in 1	170mm	1/ea	\$82.91

Feature: Hooks		Standard Taper Joints: 24/25			
Part No.	Capacity	Grad. Intervals (mL)	Height	Qty	List
G536-953	10mL	0-1 in 0.1, 2-10 in 1	100mm	1/ea	\$80.28
G536-955	15mL	0-1 in 0.1, 2-15 in 1	125mm	1/ea	\$98.19
G536-957	25mL	0-1 in 0.1	140mm	1/ea	\$92.72

Feature: No Hooks		Standard Taper Joints: 19/22			
Part No.	Capacity	Grad. Intervals (mL)	Height	Qty	List
G536-958	4mL	0-2 in 0.1, 3 and 4	100mm	1/ea	\$75.47
G536-961	15mL	0-1 in 0.1, 2-15 in 1	122mm	1/ea	\$92.91
G536-963	25mL	0-1 in 0.1, 2-25 in 1	170mm	1/ea	\$87.28

Feature: No Hooks		Standard Taper Joints: 24/25			
Part No.	Capacity	Grad. Intervals (mL)	Height	Qty	List
G536-960	10mL	0-1 in 0.1, 2-10 in 1	100mm	1/ea	\$78.16
G536-962	15mL	0-1 in 0.1, 2-15 in 1	125mm	1/ea	\$84.70
G536-964	25mL	0-1 in 0.1	140mm	1/ea	\$90.26

Concentrator Tube w/Hooks for Kuderna-Danish Concentrator

Feature: Hooks		Standard Taper Joints: 19/22			
Part No.	Capacity	Grad. Intervals (mL)	Height	Qty	List
G536-952	10mL	0-1 in 0.1, 2-10 in 1	105mm	1/ea	\$75.19

Concentrator Tube for Kuderna-Danish Concentrator w/Clamp

Feature: No Hooks		Standard Taper Joints: 19/22			
Part No.	Capacity	Grad. Intervals (mL)	Height	Qty	List
G536-959	10mL	0-1 in 0.1, 2-10 in 1	105mm	1/ea	\$75.19

Tapered Concentrator Tubes

This tapered concentrator tube is for use with Kuderna-Danish and other concentrators.

May be detached from the complete assembly and stoppered for analysis or storage.

Secure to assembly with springs or polyacetal clamps, not supplied.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Standard Taper Joints: 19/22					
Part No.	Capacity	Grad. Intervals (mL)	Height	Qty	List
G536-965	10mL	0-5 in 0.5, 5-10 in 1	100mm	1/ea	\$71.23



Need Keck Clips? We have you covered!
Plastic and stainless steel options are available



Slow Dry Concentrators

The Slow-Dry® concentrator tube reduces the risk of concentrating a sample to dryness. Unique tip features an insulated air space around the constricted end of the tube, shielding the sample and providing a protective temperature buffer. Secure to assembly with polyacetal clamps, not supplied. Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Standard Taper Joints: 19/22

Part No.	Capacity	Grad. Intervals (mL)	Height	Qty	List
G536-966	10mL	0-1 in 0.1, 2-10 in 1	113	1/ea	\$93.23
G536-968	25mL	0-1 in 0.1, 2-25 in 1	178	1/ea	\$103.91

Standard Taper Joints: 19/22 For Kuderna-Danish w/Clamp

Part No.	Capacity	Grad. Intervals (mL)	Height	Qty	List
G536-967	15mL	0-1 in 0.1, 2-15 in 1	130	1/ea	\$97.64

CONDENSERS

Graham

Condensers, Graham, 24/40 Joint

Graham condenser is designed for use in distillation applications. Constructed of borosilicate glass, this condenser has a coiled inner tube to provide additional surface area for highly efficient cooling. Socket is 24/40 with a screw thread connector.



Part No.	Description	Qty	List
C222-080	200mm, 24/40 Joint	1/ea	\$76.40
C222-081	300mm, 24/40 Joint	1/ea	\$95.83
C222-082	400mm, 24/40 Joint	1/ea	\$102.83
C222-083	500mm, 24/40 Joint	1/ea	\$109.47

Graham Condensers

Vapor travels through a coil extending through the length of the condenser and is surrounded by a cooling jacket.

Standard Taper outer joint at top.

Standard Taper inner drip joint at the bottom.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

Condensing Area is approximate.



Standard Taper Joints: 24/40 Fits: 3/8" Tubing

Part No.	Condensing Area (cm ²)	Height (mm)	Jacket Length (mm)	Qty	List
G536-302	164	342	200	1/ea	\$223.23
G536-303	212	392	250	1/ea	\$232.42
G536-304	260	442	300	1/ea	\$244.12
G536-305	356	542	400	1/ea	\$280.51

Liebig

Condensers, Liebig, 24/40 Joint

Used to cool and condense hot vapor as part of a distilling apparatus. This condenser has a straight inner tube that the condensing vapor passes through and a larger outer jacket that cooling water passes through.

Socket is 24/40 with a screw thread connector.



Part No.	Description	Qty	List
C222-084	200mm, 24/40 Joint	1/ea	\$57.17
C222-085	300mm, 24/40 Joint	1/ea	\$65.37
C222-086	400mm, 24/40 Joint	1/ea	\$71.47
C222-087	500mm, 24/40 Joint	1/ea	\$81.90



Liebig, One Piece with Full Length Joints

KIMAX® one-piece sealed unit with a standard taper outer joint at the bottom and a standard taper inner joint at the top. Inlet end is sloped to avoid trapping condensate; Drip tip is provided at the lower end.

Hose connections accept 5/16 inch ID flexible tubing.

Suitable for use with ASTM D849.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Description	Qty	List
G535-312	400mm, 24/40 Joint	1/ea	\$186.88

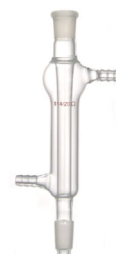
Liebig Medium Length Condenser with 14/20 Joints

Design eliminates the use of bulbs where holdup is likely to occur.

Lower inner drip joint is designed to extend into F264-280 distillation receiver.

Design conforms to NSN 6640-01-346-9222.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Standard Taper Joints: 14/20 Fits: 1/4" Tubing

Part No.	Condensing Area (cm ²)	Height	Qty	List
F264-220	34	178mm	1/ea	\$122.95

Liebig Condenser with Standard Taper Joints

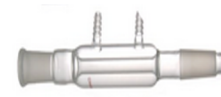
Standard taper outer joint at the top, standard taper inner drip joint at the bottom.

Hose connections accept 3/8" ID flexible tubing.

Ref: ASTM Method D322.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

Condensing area is approximate.



Standard Taper Joints: 24/40 Fits Tubing ID: 3/8"

Part No.	Condensing Area (cm ²)	Overall H (mm)	Jacket L (mm)	Qty	List
G536-308	41	242	100	1/ea	\$173.40
G536-309	82	342	200	1/ea	\$175.21
G536-310	102	392	250	1/ea	\$185.65
G536-311	123	442	300	1/ea	\$191.86
G536-312	164	542	400	1/ea	\$195.54

Standard Taper Joints: 29/42 Fits Tubing: 3/8"

Part No.	Condensing Area (cm ²)	Overall H (mm)	Jacket L (mm)	Qty	List
G536-313	82	352	200	1/ea	180.77

Water Cooled Liebig Condensers

Water-cooled Standard Taper inner drip and Standard Taper outer joints provide the maximum condensing surface.

Full length Standard Taper 24/40 joints; Hose connections accept 3/8" ID flexible tubing.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

Condensing area is approximate.



Standard Taper Joints: 24/40 Fits Tubing ID: 3/8"

Part Number	Condensing Area (cm ²)	Overall H (mm)	Jacket L (mm)	Qty	List
G536-314	76	240	220	1/ea	\$222.74
G536-315	110	340	320	1/ea	\$235.19
G536-316	145	440	420	1/ea	\$246.98

Other Condenser Options Available

CRUCIBLES

Crucibles

Includes covers. Crucibles are glazed on inner and outer surfaces except for the outside bottom and rim. These are autoclavable items that can withstand temperatures up to 1150°C. To prevent thermal stress cracks, we strongly recommend a heating/cooling rate not exceeding 200°C per hour. United porcelain crucibles offer excellent resistance to acids and alkalis except for hydrofluoric acid.

Thermal Shock Resistance - average coefficient of expansion from 20°C to 200°C is 3.56×10^{-5} , gradually increasing to 4.69×10^{-5} at 1050°C. Every batch of porcelain is heat tested in our factory.

Glaze - No softening occurs up to 1000°C and it is extremely white.

Resistance to Chemical Action - Resistance to acids and alkalis is excellent, except for hydrofluoric acid.

Tall Form

Part No.	Capacity	Height x Top OD	Qty	List
B724-524	10mL	26mm x 31mm	6/pk	\$29.58
B724-522	15mL	29mm x 35mm	6/pk	\$43.75
B724-521	25mL	32mm x 40mm	6/pk	\$37.33
B724-520	30mL	37mm x 43mm	6/pk	\$54.67
B724-519	40mL	40mm x 50mm	6/pk	\$57.46
B724-518	50mL	43mm x 53mm	6/pk	\$48.01
B724-517	100mL	54mm x 65mm	6/pk	\$69.77
B724-516	250mL	72mm x 88mm	6/pk	\$122.93

Wide Form

Part No.	Capacity	Height x Top OD	Qty	List
B724-530	30mL	31mm x 50mm	6/pk	\$53.02
B724-529	50mL	37mm x 61mm	6/pk	\$65.60
B724-528	100mL	6mm x 76mm	6/pk	\$91.89
B724-527	150mL	52mm x 84mm	6/pk	\$111.07
B724-526	250mL	60mm x 102mm	6/pk	\$131.99



Crucibles

VEE GEE Crucibles are manufactured with the highest standards and are glazed inside and out except for outside bottom surface and rim. Crucible Covers with ring handles are glazed inside and out except for rim.

Part No.	Capacity	Approx. O.D.	Qty	List
C900-064	10mL	30 x 25mm	5/pk	\$20.33
C900-065	12mL	35 x 28mm	5/pk	\$22.00
C900-066	30mL	45 x 36mm	5/pk	\$28.33
C900-067	45mL	50 x 40mm	5/pk	\$36.67
C900-068	80mL	60 x 48mm	5/pk	\$43.33



Crucible Covers

Part No.	Fits Diameter	Qty	List
C900-070	30mm	5/pk	\$22.67
C900-071	35mm	5/pk	\$24.33
C900-072	45mm	5/pk	\$32.00
C900-073	50mm	5/pk	\$34.00
C900-074	60mm	5/pk	\$38.33



Gooch

Gooch Crucibles

Gooch crucibles have a perforated bottom and include covers. Crucibles are glazed on inner and outer surfaces except for the outside bottom and rim. Used for determination of total suspended solids. Autoclavable. Withstand temperatures to 1150°C. To prevent thermal stress cracks, we strongly recommend a heating/cooling rate not exceeding 200°C per hour. United porcelain crucibles offer excellent resistance to acids and alkalis except for hydrofluoric acid.

Thermal Shock Resistance - average coefficient of expansion from 20°C to 200°C is 3.56×10^{-5} , gradually increasing to 4.69×10^{-5} at 1050°C. Every batch of porcelain is heat tested in our factory.

Glaze - No softening occurs up to 1000°C and it is extremely white.

Resistance to Chemical Action - Resistance to acids and alkalis is excellent, except for hydrofluoric acid.



Part No.	Capacity	For Paper Dia.	Height x Top OD	Qty	List
B724-488	15mL	15-16mm	32 x 29mm	6/pk	\$49.76
B724-487	30mL	20-21mm	45 x 36mm	6/pk	\$64.71
B724-486	50mL	23-24mm	49 x 40mm	6/pk	\$82.92
B724-485	140mL	30mm	83 x 55mm	1/ea	\$19.21

Gooch Crucibles with Fritted Disc Filters

SIBATA Gooch Crucibles, with fritted disc filters, meet ISO 4793 Specifications. Suitable for analytical work where precipitates are dried to a constant weight at 110°C. Also suitable for higher temperatures, in which case it is advisable to heat in an electric furnace. Crucibles should not be subjected to sudden temperature changes. In order to avoid strain, they should not be removed from the furnace until the temperature has dropped to 250°C. Crucibles are available in 6 different porosities.

Cat. No.'s B115-017 through B115-027 have double-graduated metric scales. Accuracy: $\pm 5\%$ of full capacity.



Type: 1G *Approx. O.D. x Height: 38 x 60mm*

Part No.	Capacity	Porosity	Pore Size	Disc Diameter	Qty	List
C900-003	30mL	PC	16 - 40 μ m	34mm	3/pk	\$69.20
C900-001	30mL	EC	160 - 250 μ m	34mm	3/pk	\$69.20
C900-004	30mL	M	10 - 16 μ m	34mm	3/pk	\$69.20
C900-002	30mL	C	40 - 100 μ m	34mm	3/pk	\$69.20
C900-003	30mL	PC	16 - 40 μ m	34mm	3/pk	\$69.20
C900-005	30mL	F	4 - 5.5 μ m	34mm	3/pk	\$212.20

Type: 3G *Approx. O.D. x Height: 46 x 60mm*

Part No.	Capacity	Porosity	Pore Size	Disc Diameter	Qty	List
C900-006	50mL	EC	160 - 250 μ m	41mm	3/pk	\$81.00

Type: 2G *Approx. O.D. x Height: 46 x 60mm*

Part No.	Capacity	Porosity	Pore Size	Disc Diameter	Qty	List
C900-009	50mL	PC	16 - 40 μ m	41mm	3/pk	\$81.00
C900-008	50mL	C	40 - 100 μ m	41mm	3/pk	\$81.00
C900-007	50mL	SEC	100 - 160 μ m	41mm	3/pk	\$81.00
C900-010	50mL	M	10 - 16 μ m	41mm	3/pk	\$81.00

Crucible Accessories

Crucible Tongs

Tongs have an overall length of 9" and include riveted joints and serrated tips.



Part No.	Description	Qty	List
C221-950	Crucible Tongs, Plated Steel	1/ea	\$4.86
C222-098	Crucible Tongs, Oxidized Steel	1/ea	\$5.30
C221-951	Crucible Tongs, Brass	1/ea	\$9.93
C221-949	Crucible Tongs, Stainless Steel	1/ea	\$11.10

Crucible Tongs Series 300

Stainless Steel



Part No.	Description	Qty	List
M900-316	9 1/2" (241mm) Serrated Tapered Tips	1/ea	\$31.00
M900-317	20" (508mm) Serrated Tips	1/ea	\$61.67

CULTURE/TEST TUBES

Culture Tubes

These culture tubes are suitable for tissue culture work and general bacteriological use. Round-bottomed. Each tube has a chevron marking area. Modular trays are shrink-wrapped in plastic film. Supplied without caps. Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements.



Part No.	OD x L	Qty/pk	List/pk	Qty/cs	List/cs
G538-106	13 x 100mm	500/pk	\$196.14	1000/cs	\$264.56
G538-107	16 x 100mm	250/pk	\$126.35	1000/cs	\$340.86
G538-108	16 x 125mm	250/pk	\$126.35	1000/cs	\$340.86
G538-109	16 x 150mm	250/pk	\$102.02	1000/cs	\$408.09
G538-110	20 x 125mm	250/pk	\$185.88	500/cs	\$250.72
G538-111	20 x 150mm	250/pk	\$209.73	500/cs	\$282.88

Disposable Screw Thread Culture Tubes

These tubes are suitable for tissue culture work and general bacteriological use. Round bottom with modular trays are shrink wrapped in plastic film. Supplied without caps; no marking spots, manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I Class B requirement.



Part No.	OD x L	Qty/pk	List/pk	Qty/cs	List/cs
G538-116	13 x 100mm	500/pk	\$247.16	1000/cs	\$317.44
G538-117	16 x 100mm	250/pk	\$180.63	1000/cs	\$487.28
G538-118	16 x 125mm	250/pk	\$150.87	1000/cs	\$407.00
G538-119	16 x 150mm	250/pk	\$161.74	1000/cs	\$436.33
G538-120	20 x 125mm	250/pk	\$224.00	500/cs	\$302.14
G538-121	20 x 150mm	250/pk	\$260.85	500/cs	\$351.84

Caps for G538 Series Tubes

Black Phenolic Caps with Cemented-In White Rubber Liners

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
G538-130	13-415 Black Phenolic Cap	100/pk	\$21.22	1,000/cs	\$143.14
G538-131	15-415 Black Phenolic Cap	n/a	n/a	1,000/cs	\$145.95
G538-132	18-415 Black Phenolic Cap	n/a	n/a	1,000/cs	\$193.74



Closed Top Linerless Polypropylene Screw Thread Caps

Part No.	Description	Qty	List
G538-156	15-415 White Polypropylene, Linerless, Economy	1,000/cs	\$84.67
G538-157	13-415 Natural Polypropylene, Linerless	1,000/cs	\$100.51
G538-158	15-415 Natural Polypropylene, Linerless	1,000/cs	\$103.40
G538-159	18-415 Natural Polypropylene, Linerless	500/cs	\$66.07



Culture Tube Closures

KIM-KAP® Polypropylene Closures for Culture Tubes.
Autoclavable / Color coded



Part No.	Color	Tube OD (mm)	Qty/pk	List/pk	Qty/cs	List/cs
G538-081	Natural	13	500/pk	\$87.69	1,000/cs	\$118.28
T301-016	Natural	16	500/pk	\$93.54	1,000/cs	\$126.16
G538-082	Natural	18	500/pk	\$105.21	1,000/cs	\$141.91
G538-083	Natural	20	250/pk	\$88.35	500/cs	\$119.16
G538-084	Natural	25	250/pk	\$122.85	500/cs	\$165.70
G538-085	Natural	38	125/pk	\$151.69	250/cs	\$204.61
G538-086	Red	13	500/pk	\$101.55	1,000/cs	\$136.98
G538-087	Red	16	500/pk	\$105.28	1,000/cs	\$142.00
G538-088	Red	18	500/pk	\$132.47	1,000/cs	\$178.67
G538-089	Red	20	250/pk	\$104.35	500/cs	\$140.74
G538-090	Red	25	250/pk	\$143.28	500/cs	\$193.26
G538-091	Green	13	500/pk	\$101.55	1,000/cs	\$136.98
G538-092	Green	16	500/pk	\$105.28	1,000/cs	\$142.00
G538-093	Green	18	500/pk	\$132.47	1,000/cs	\$178.67
G538-094	Green	20	250/pk	\$104.35	500/cs	\$140.74
G538-095	Green	25	250/pk	\$143.28	500/cs	\$193.26
G538-096	Yellow	13	500/pk	\$143.28	1,000/cs	\$193.26
G538-097	Yellow	16	500/pk	\$105.28	1,000/cs	\$142.00
G538-098	Yellow	18	500/pk	\$132.47	1,000/cs	\$178.67
G538-099	Yellow	20	250/pk	\$104.35	500/cs	\$140.74



Culture Tube Closures

KIM-KAP® Polypropylene Closures for Culture Tubes.
Autoclavable / Color coded



Part No.	Color	Tube OD	Qty/pk	List/pk	Qty/cs	List/cs
G538-100	Yellow	25mm	250/pk	\$143.28	500/cs	\$193.27
G538-101	Blue	13mm	500/pk	\$101.55	1000/cs	\$136.97
G538-102	Blue	16mm	500/pk	\$105.28	1000/cs	\$142.00
G538-103	Blue	18mm	500/pk	\$132.47	1000/cs	\$178.67
G538-104	Blue	20mm	250/pk	\$104.35	500/cs	\$140.74
G538-105	Blue	25mm	250/pk	\$143.28	500/cs	\$193.26

Disposable Glass Tubes

These premium quality tubes feature sturdy, uniform bottoms and consistent lengths. The 10 x 75 & 12 x 75mm tubes are suitable for cell washing procedures. 51 Expansion Glass offers excellent chemical resistance against sodium leaching, a factor common in soda lime glass products. Tubes are packed in convenient trays for ease of use on bench tops and in drawers. The 6 x 50mm size is often referred to as a "Durham tube". Trays are shrink wrapped in plastic film, with tubes remaining in constant alignment for protection against in-transit breakage and contamination. No marking spot. Designed from ASTM Specification E890. Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements.

Part No.	OD x L	Qty/pk	List/pk	Qty/cs	List/cs
T111-001	6 x 50mm	100/pk	\$11.56	1000/cs	\$77.95
T111-002	10 x 75mm	250/pk	\$29.88	1000/cs	\$88.91
T111-003	12 x 75mm	250/pk	\$19.91	1000/cs	\$53.70
T111-010	15 x 85mm	250/pk	n/a	1000/cs	\$96.14
T111-004	13 x 100mm	250/pk	\$26.29	1000/cs	\$70.93
T111-005	16 x 100mm	250/pk	\$37.30	1000/cs	\$100.63
T111-006	16 x 125mm	250/pk	\$85.31	1000/cs	\$227.25
T111-007	16 x 150mm	250/pk	\$44.98	1000/cs	\$121.33
T111-008	18 x 150mm	125/pk	\$36.17	500/cs	\$97.56
T111-009	20 x 150mm	250/pk	\$108.40	500/cs	\$146.21
T111-011	25 x 150mm	125/pk	\$113.80	500/cs	\$307.00

Reusable Plain Test Tubes with Marking Spot

Sturdy lip and uniform wall thickness for maximum heat transfer and chemical resistance

Durable white ceramic enamel marking spot on each tube

Designed from ASTM Specification E982, Type I requirements

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

Part No.	Overflow Cap.	OD x Length	Qty/pk	List/pk	Qty/cs	List/cs
G536-321	4mL	10 x 75mm	72/pk	\$68.55	720/cs	\$462.30
G536-322	6mL	12 x 75mm	72/pk	\$37.84	720/cs	\$378.44
G536-323	10mL	13 x 100mm	72/pk	\$79.96	720/cs	\$512.26
G536-324	16mL	15 x 125mm	72/pk	\$98.19	720/cs	\$662.23
G536-325	24mL	16 x 150mm	72/pk	\$102.94	576/cs	\$555.40
G536-326	28mL	18 x 150mm	72/pk	\$125.00	576/cs	\$674.44
G536-327	36mL	20 x 150mm	72/pk	\$141.54	576/cs	\$763.67
G536-328	55mL	25 x 150mm	72/pk	\$224.28	288/cs	\$605.02
G536-329	75mL	25 x 200mm	24/pk	\$85.79	192/cs	\$462.86

Test Tubes without Rim, Borosilicate Glass

Pre-cleaned borosilicate glass test tubes without rims. Tubes can be used for hot or cold applications, are reusable and can be autoclaved.

Part No.	O.D. x Length	Capacity	Qty/pk	List/pk	Qty/cs	List/cs
T660-613	10 x 75mm	3mL	72/pk	\$22.40	720/cs	\$224.00
T660-614	12 x 75mm	5mL	72/pk	\$30.60	n/a	n/a
T660-615	12 x 100mm	8mL	72/pk	\$36.67	n/a	n/a
T660-616	15 x 125mm	15mL	72/pk	\$48.87	n/a	n/a
T660-617	15 x 150mm	17mL	72/pk	\$44.83	n/a	n/a
T660-618	16 x 100mm	14mL	72/pk	\$55.03	n/a	n/a
T660-619	18 x 150mm	24mL	72/pk	\$67.23	n/a	n/a
T660-620	25 x 100mm	37mL	72/pk	\$91.70	n/a	n/a
T660-621	25 x 150mm	60mL	72/pk	\$72.28	n/a	n/a
T660-622	25 x 200mm	75mL	48/pk	\$65.60	192/cs	\$262.40
T660-623	32 x 200mm	125mL	50/pk	\$144.37	n/a	n/a
T660-624	38 x 200mm	175mL	50/pk	\$186.23	n/a	n/a

Test Tubes with Rim, Borosilicate Glass

Pre-cleaned borosilicate glass test tubes with rims. Tubes can be used for hot or cold applications, are reusable and can be autoclaved.



Part No.	O.D. x Length	Capacity	Qty	List
T660-599	10 x 75mm	3mL	72/cs	\$30.60
T660-600	12 x 75mm	5mL	72/cs	\$30.60
T660-601	12 x 100mm	8mL	72/cs	\$36.67
T660-602	15 x 125mm	15mL	72/cs	\$35.83
T660-603	15 x 150mm	17mL	72/cs	\$61.13
T660-610	16 x 100mm	14mL	72/cs	\$58.57
T660-611	16 x 125mm	16mL	72/cs	\$64.40
T660-604	18 x 150mm	24mL	72/cs	\$67.23
T660-612	20 x 150mm	36mL	72/cs	\$87.80
T660-605	25 x 100mm	37mL	72/cs	\$91.70
T660-606	25 x 150mm	60mL	72/cs	\$103.97
T660-607	25 x 200mm	75mL	48/cs	\$65.71
T660-608	32 x 200mm	125mL	50/cs	\$144.37
T660-609	38 x 200mm	175mL	50/cs	\$186.23

Caps for Glass Tubes

These caps are ideal for resealing glass test tubes and glass culture tubes.

Economical way to recap glass tubes, regardless of manufacturer.

Available in seven transparent colors that correspond to Vacutainer® cap colors: Natural, Blue, Green, Lavender, Red, Gray and Yellow.

Caps can be written on with indelible ink for easy sample identification.

Prevents spills and evaporation by employing a liquid tight seal.



Thumb Caps (Caps for Glass Tubes)

Part No.	Color	Evacuated Tube	Culture Tube	Plastic Tube	Qty	List
T100-178	Natural	10mm	10mm	n/a	1000/cs	\$59.25
T100-179	Blue	10mm	10mm	n/a	1000/cs	\$59.25
T100-180	Green	10mm	10mm	n/a	1000/cs	\$60.50
T100-181	Lavender	10mm	10mm	n/a	1000/cs	\$59.55
T100-182	Red	10mm	10mm	n/a	1000/cs	\$59.55
T100-183	Yellow	10mm	10mm	n/a	1000/cs	\$60.25
T100-228	Natural	13mm	12mm	12mm	1000/cs	\$59.00
T100-229	Blue	13mm	12mm	12mm	1000/cs	\$59.45
T100-230	Green	13mm	12mm	12mm	1000/cs	\$58.95
T100-231	Lavender	13mm	12mm	12mm	1000/cs	\$59.45
T100-232	Red	13mm	12mm	12mm	1000/cs	\$59.45
T100-233	Grey	13mm	12mm	12mm	1000/cs	\$60.15
T100-234	Yellow	13mm	12mm	12mm	1000/cs	\$59.45
T100-239	Natural	n/a	13mm	n/a	1000/cs	\$58.60
T100-240	Blue	n/a	13mm	n/a	1000/cs	\$58.50
T100-241	Green	n/a	13mm	n/a	1000/cs	\$58.50
T100-242	Lavender	n/a	13mm	n/a	1000/cs	\$58.45
T100-243	Red	n/a	13mm	n/a	1000/cs	\$58.50
T100-244	Grey	n/a	13mm	n/a	1000/cs	\$59.20
T100-245	Yellow	n/a	13mm	n/a	1000/cs	\$59.20
T100-257	Natural	16mm	16mm	n/a	1000/cs	\$58.55
T100-258	Blue	16mm	16mm	n/a	1000/cs	\$59.35
T100-259	Green	16mm	16mm	n/a	1000/cs	\$59.80
T100-260	Lavender	16mm	16mm	n/a	1000/cs	\$59.35
T100-261	Red	16mm	16mm	n/a	1000/cs	\$58.80
T100-262	Grey	16mm	16mm	n/a	1000/cs	\$59.55
T100-263	Yellow	16mm	16mm	n/a	1000/cs	\$59.50

Flange Caps (LDPE)

Part No.	Color	Size	Qty	List
T100-185	Natural	12mm	1000/pk	\$47.70
T100-187	Blue	12mm	1000/pk	\$47.80
T100-188	Green	12mm	1000/pk	\$48.30
T100-189	Lavender	12mm	1000/pk	\$48.30
T100-190	Orange	12mm	1000/pk	\$47.80
T100-191	Red	12mm	1000/pk	\$48.30
T100-192	White	12mm	1000/pk	\$48.25
T100-193	Yellow	12mm	1000/pk	\$48.30
T100-186	Assorted	12mm	1000/pk	\$54.35
T100-184	Natural	16mm	1000/pk	\$82.90



Caps for Glass Tubes

Universal Caps (LDPE)

Part No.	Color	Size	Qty	List
C200-206	Natural	12, 13, 16mm	1000/cs	\$47.85
C200-207	Blue	12, 13, 16mm	1000/cs	\$48.45
C200-209	Green	12, 13, 16mm	1000/cs	\$48.45
C200-210	Lavender	12, 13, 16mm	1000/cs	\$48.45
C200-211	Red	12, 13, 16mm	1000/cs	\$48.45
C200-212	Yellow	12, 13, 16mm	1000/cs	\$49.05

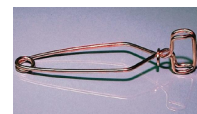


Test Tube Accessories

Test Tube Clamps

Self-closing, available in brass wire or steel wire with brass finish.

Part No.	Description	Qty	List
T660-646	Brass Wire, With Finger Grips	1/ea	\$2.09
T660-647	Brass Wire, Without Finger Grips	1/ea	\$2.20
T660-648	Steel Wire, Brass Finish, With Finger Grips	1/ea	\$1.72
T660-649	Steel Wire, Brass Finish, Without Finger Grips	1/ea	\$2.20



Stack Rack Test Tube Rack

For 10-13mm Tubes, 72 Places, Polypropylene

These sturdy, rigid racks feature interlocking end plates with handles for secure stacking when loaded with tubes up to 10cm (4") long. Rows are numbered and lettered for easy tube identification. All racks are steam autoclavable at 121°C (250°F).

Polypropylene racks have white surfaces that make color comparisons easy; sturdy and chemical resistant; will not shatter or stain; top shelf height 7cm (2 3/4")

Polycarbonate racks have crystal-clear decks and are perfect for submersing in water baths; top shelf is 7.3cm (2 7/8") high

Top Deck Height:	2.75"
Tube Size:	10-13mm
Places:	72
Rows:	6 x 12



Part No.	Dimensions (L x W x H)	Qty	List
R100-221	9 1/4 x 4 7/16 x 4 1/4"	1/ea	68.33

Test Tube Rack, PP, 3-Tier

Polypropylene racks with a three-tier design provide a clear view of the tube contents and convenient insertion and removal of tubes.

Part No.	For Tubes up to / No. of places	Qty	List
B724-788	13mm / 31 tubes	2/pk	\$26.40
B724-789	16mm / 31 tubes	2/pk	\$39.60
B724-790	20mm / 20 tubes	2/pk	\$53.70
B724-791	25mm / 12 tubes	2/pk	\$39.60
B724-792	25mm / 18 tubes	2/pk	\$53.70
B724-793	32mm / 12 tubes	2/pk	\$62.20
B724-794	25mm / 36 tubes	2/pk	\$71.63
B724-795	13mm / 18 tubes	4/pk	\$45.20
B724-796	15mm / 18 tubes	4/pk	\$45.20
B724-797	18mm / 12 tubes	4/pk	\$45.20
B724-798	13mm / 62 tubes	2/pk	\$79.15
B724-799	16mm / 62 tubes	2/pk	\$79.15
B724-800	20mm / 40 tubes	2/pk	\$107.45



Poxygrid Test Tube Racks

Choice of four colors and multiple sizes.

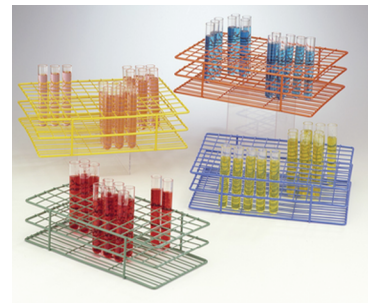
Chemical and corrosion-resistant steel wire racks are coated with heat-cured epoxy.

Orange racks can be used for biohazard warning, yellow for radioactive warning.

Epoxy coatings are unaffected by organic solvents, salts, weak acids and weak alkalis.

Will withstand a temperature range of -223°C (-369°F) to 121°C (250°F); autoclavable.

All racks have square holes, three decks, a slotted grid bottom and reinforced edges.



Top Deck Height: 2.5"

10-13mm Tubes

Part No.	Places / Rows	Color	(L x W x H)	Qty	List
R100-079	72 / 6 x 12	Green	20.5 x 11.3 x 6.4cm	1/ea	\$59.70
R100-080	72 / 6 x 12	Blue	20.5 x 11.3 x 6.4cm	1/ea	\$59.70
R100-081	72 / 6 x 12	Yellow	20.5 x 11.3 x 6.4cm	1/ea	\$60.60
R100-082	72 / 6 x 12	Orange	20.5 x 11.3 x 6.4cm	1/ea	\$60.60
R100-085	108 / 9 x 12	Green	20.5 x 16.4 x 6.4cm	1/ea	\$64.58
R100-086	108 / 9 x 12	Blue	20.5 x 16.4 x 6.4cm	1/ea	\$63.68
R100-087	108 / 9 x 12	Orange	20.5 x 16.4 x 6.4cm	1/ea	\$64.58

Top Deck Height: 2.5"

13-16mm Tubes

Part No.	Places / Rows	Color	(L x W x H)	Qty	List
R100-088	40 / 4 x 10	Green	20.3 x 9.2 x 6.4cm	1/ea	\$56.78
R100-089	40 / 4 x 10	Blue	20.3 x 9.2 x 6.4cm	1/ea	\$57.68
R100-090	48 / 4 x 12	Green	24.2 x 9.2 x 6.4cm	1/ea	\$58.35
R100-091	48 / 4 x 12	Blue	24.2 x 9.2 x 6.4cm	1/ea	\$54.75
R100-092	48 / 4 x 12	Yellow	24.2 x 9.2 x 6.4cm	1/ea	\$58.35
R100-093	48 / 4 x 12	Orange	24.2 x 9.2 x 6.4cm	1/ea	\$58.35
R100-095	72 / 6 x 12	Green	24.2 x 13 x 6.4cm	1/ea	\$54.75
R100-096	72 / 6 x 12	Blue	24.2 x 13 x 6.4cm	1/ea	\$55.28
R100-097	72 / 6 x 12	Yellow	24.2 x 13 x 6.4cm	1/ea	\$58.28
R100-098	72 / 6 x 12	Orange	24.2 x 13 x 6.4cm	1/ea	\$57.30
R100-099	108 / 9 x 12	Green	24.2 x 18.9 x 6.4cm	1/ea	\$64.58
R100-100	108 / 9 x 12	Blue	24.2 x 18.9 x 6.4cm	1/ea	\$61.50
R100-101	108 / 9 x 12	Yellow	24.2 x 18.9 x 6.4cm	1/ea	\$65.18
R100-102	108 / 9 x 12	Orange	24.2 x 18.9 x 6.4cm	1/ea	\$65.18

Top Deck Height: 3.25"

16-20mm Tubes

Part No.	Places / Rows	Color	(L x W x H)	Qty	List
R100-104	40 / 4 x 10	Green	24.3 x 11 x 8.3cm	1/ea	\$56.78
R100-105	40 / 4 x 10	Blue	24.3 x 11 x 8.3cm	1/ea	\$57.30
R100-106	40 / 4 x 10	Yellow	24.3 x 11 x 8.3cm	1/ea	\$58.35
R100-107	40 / 4 x 10	Orange	24.3 x 11 x 8.3cm	1/ea	\$57.68
R100-109	80 / 8 x 10	Green	24.3 x 20.3 x 8.3cm	1/ea	\$65.18
R100-110	80 / 8 x 10	Blue	24.3 x 20.3 x 8.3cm	1/ea	\$65.18

Top Deck Height: 3.25"

20-25mm Tubes

Part No.	Places / Rows	Color	(L x W x H)	Qty	List
R100-112	40 / 4 x 10	Green	26.3 x 11.6 x 8.3cm	1/ea	\$65.18
R100-113	40 / 4 x 10	Blue	26.3 x 11.6 x 8.3cm	1/ea	\$65.18
R100-114	40 / 4 x 10	Green	29.3 x 12.8 x 8.3cm	1/ea	\$60.00
R100-115	40 / 4 x 10	Blue	29.3 x 12.8 x 8.3cm	1/ea	\$59.18
R100-116	40 / 4 x 10	Yellow	29.3 x 12.8 x 8.3cm	1/ea	\$60.00
R100-117	40 / 4 x 10	Orange	29.3 x 12.8 x 8.3cm	1/ea	\$60.00
R100-118	80 / 8 x 10	Green	29.3 x 24.2 x 8.3cm	1/ea	\$65.18
R100-119	80 / 8 x 10	Blue	29.3 x 24.2 x 8.3cm	1/ea	\$65.18
R100-120	80 / 8 x 10	Yellow	29.3 x 24.2 x 8.3cm	1/ea	\$65.18
R100-121	80 / 8 x 10	Orange	29.3 x 24.2 x 8.3cm	1/ea	\$65.18



Cork Stoppers

These tapered cork stoppers are an excellent choice for general laboratory use. They are effective for both liquid and solid mediums and offer light weight, resilience and compressibility. Chemically inert and moisture resistant.



Part No.	Stopper Size	Height (mm)	Top Dia.(mm)	Bottom Dia.(mm)	Qty	List
C221-975	000	13	6	4	100/pk	\$10.45
C221-976	00	13	8	5	100/pk	\$11.70
C221-977	0	13	10	7	100/pk	\$13.15
C221-974	1	16	11	8	100/pk	\$14.35
C221-963	2	17	13	9	100/pk	\$10.99
C221-961	3	19	14	10	100/pk	\$11.33
C221-960	4	20	16	11	100/pk	\$18.30
C221-959	5	22	17	12	100/pk	\$28.70
C221-958	6	24	19	13	100/pk	\$28.70
C221-957	7	25	21	15	100/pk	\$18.55
C221-956	8	27	22	17	100/pk	\$23.12
C221-955	9	29	24	18	100/pk	\$53.50
C221-973	10	31	25	20	100/pk	\$99.90
C221-972	11	31	27	21	100/pk	\$128.43
C221-971	12	31	29	22	100/pk	\$142.67
C221-970	13	31	30	24	100/pk	\$157.03
C221-969	14	31	32	25	100/pk	\$171.27
C221-968	15	31	33	27	100/pk	\$185.50
C221-967	16	38	35	27	100/pk	\$214.10
C221-966	17	38	36	30	100/pk	\$228.33
C221-965	18	38	38	31	100/pk	\$242.60
C221-964	19	38	40	33	100/pk	\$264.00
C221-962	20	38	41	34	100/pk	\$285.47

Rubber Stopper Assortments

These black stoppers are made of solid natural rubber that stays pliable over a long period of time. Ideal for use with non-aggressive or concentrated solutions. Low sulfur content. Withstand temperatures from -25 to 70°C (-13 to 158°F). These convenient assortments of various sizes of rubber stoppers are sold as one-pound bags.



Part No.	Description	Sizes	List
S465-131	Assorted, one pound	1 to 6	\$19.95
S465-132	Solid, one pound	00 to 7	\$9.60
S465-133	1-Hole, one pound	00 to 7	\$9.60
S465-134	2-Hole, one pound	2 to 8	\$9.60

Rubber Stoppers

These black stoppers are made of solid natural rubber that stays pliable over a long period of time. Ideal for use with non-aggressive or concentrated solutions. Low sulfur content. Withstand temperatures from -25 to 70°C (-13 to 158°F). Available in solid, one-hole and two-hole versions. Each stopper has its size marked in raised figures. Sold as one-pound bags.



Solid

Part No.	Size	Top Dia.	Bottom Dia.	Hole size	Approx. Qty/lb	List
S465-077	000	13mm	8mm	3mm	170/lb	\$12.34
S465-079	00	15mm	10mm	3mm	90/lb	\$13.30
S465-082	0	17mm	13mm	3mm	63/lb	\$9.21
S465-100	1	19mm	14mm	4mm	52/lb	\$9.21
S465-103	2	20mm	16mm	5mm	45/lb	\$11.99
S465-106	3	24mm	18mm	5mm	33/lb	\$11.99
S465-109	4	26mm	20mm	5mm	28/lb	\$8.55
S465-115	5	27mm	23mm	5mm	24/lb	\$8.55
S465-112	5½	28mm	24mm	5mm	21/lb	\$8.55
S465-121	6	32mm	26mm	5mm	18/lb	\$8.55
S465-118	6½	34mm	27mm	5mm	16/lb	\$9.21
S465-124	7	37mm	30mm	5mm	13/lb	\$11.99
T660-420	7½	39mm	31mm	5mm	13/lb	\$17.70
S465-127	8	41mm	33mm	5mm	10/lb	\$8.55
T660-423	8½	43mm	36mm	5mm	10/lb	\$17.70
S465-130	9	45mm	37mm	5mm	9/lb	\$8.55
T660-426	9½	46mm	38mm	5mm	9/lb	\$17.70
S465-088	10	50mm	42mm	5mm	7/lb	\$11.99
S465-085	10½	53mm	45mm	5mm	7/lb	\$17.70
S465-094	11	56mm	48mm	5mm	6/lb	\$11.99
S465-091	11½	63mm	50mm	5mm	6/lb	\$11.99
T660-408	12	64mm	54mm	5mm	5/lb	\$17.99
S465-097	13	68mm	58mm	5mm	4/lb	\$17.99
T660-411	14	90mm	75mm	5mm	1/lb	\$17.70
T660-414	15	103mm	83mm	5mm	1/lb	\$23.05
T660-417	16	127mm	90mm	5mm	1/lb	\$23.95



Rubber stoppers are packaged in compressed atmosphere.

Rubber Stoppers

These black stoppers are made of solid natural rubber that stays pliable over a long period of time. Ideal for use with non-aggressive or concentrated solutions. Low sulfur content. Withstand temperatures from -25 to 70°C (-13 to 158°F). Available in solid, one-hole and two-hole versions. Each stopper has its size marked in raised figures. Sold as one-pound bags.

One-Hole

Part No.	Size	Top Dia.	Bottom Dia.	Hole size	Approx. Qty/lb	List
S465-076	000	13mm	8mm	3mm	170/lb	\$17.70
S465-078	00	15mm	10mm	3mm	90/lb	\$8.85
S465-080	0	17mm	13mm	3mm	63/lb	\$17.70
S465-098	1	19mm	14mm	4mm	52/lb	\$8.55
S465-101	2	20mm	16mm	5mm	45/lb	\$17.70
S465-104	3	24mm	18mm	5mm	33/lb	\$17.70
S465-107	4	26mm	20mm	5mm	28/lb	\$8.98
S465-113	5	27mm	23mm	5mm	24/lb	\$8.85
S465-110	5½	28mm	24mm	5mm	21/lb	\$17.70
S465-119	6	32mm	26mm	5mm	18/lb	\$8.85
S465-116	6½	34mm	27mm	5mm	16/lb	\$12.00
T660-418	7½	39mm	31mm	5mm	13/lb	\$17.70
S465-125	8	41mm	33mm	5mm	10/lb	\$8.55
T660-421	8½	43mm	36mm	5mm	10/lb	\$17.70
S465-128	9	45mm	37mm	5mm	9/lb	\$8.55
T660-424	9½	46mm	38mm	5mm	9/lb	\$17.70
S465-086	10	50mm	42mm	5mm	7/lb	\$8.55
S465-083	10½	53mm	45mm	5mm	7/lb	\$17.70
S465-092	11	56mm	48mm	5mm	6/lb	\$8.55
S465-089	11½	63mm	50mm	5mm	6/lb	\$9.21
T660-406	12	64mm	54mm	5mm	5/lb	\$17.99
S465-095	13	68mm	58mm	5mm	4/lb	\$9.21
T660-409	14	90mm	75mm	5mm	1/lb	\$17.70
T660-412	15	103mm	83mm	5mm	1/lb	\$23.05
T660-415	16	127mm	90mm	5mm	1/lb	\$23.95



Rubber Stoppers

These black stoppers are made of solid natural rubber that stays pliable over a long period of time. Ideal for use with non-aggressive or concentrated solutions. Low sulfur content. Withstand temperatures from -25 to 70°C (-13 to 158°F). Available in solid, one-hole and two-hole versions. Each stopper has its size marked in raised figures. Sold as one-pound bags.

Two-Hole

Part No.	Size	Top Dia.	Bottom Dia.	Hole size	Approx. Qty/lb	List
T660-405	00	15mm	10mm	3mm	90/lb	\$17.70
S465-081	0	17mm	13mm	3mm	63/lb	\$17.70
S465-099	1	19mm	14mm	4mm	52/lb	\$17.70
S465-102	2	20mm	16mm	5mm	45/lb	\$17.70
S465-105	3	24mm	18mm	5mm	33/lb	\$17.70
S465-108	4	26mm	20mm	5mm	28/lb	\$12.19
S465-114	5	27mm	23mm	5mm	24/lb	\$117.70
S465-111	5½	28mm	24mm	5mm	21/lb	\$17.70
S465-120	6	32mm	26mm	5mm	18/lb	\$8.55
S465-117	6½	34mm	27mm	5mm	16/lb	\$17.70
S465-123	7	37mm	30mm	5mm	13/lb	\$17.70
T660-419	7½	39mm	31mm	5mm	13/lb	\$17.70
S465-126	8	41mm	33mm	5mm	10/lb	\$17.70
T660-422	8½	43mm	36mm	5mm	10/lb	\$17.70
S465-129	9	45mm	37mm	5mm	9/lb	\$12.13
T660-425	9½	46mm	38mm	5mm	9/lb	\$17.70
S465-087	10	50mm	42mm	5mm	7/lb	\$17.70
S465-084	10½	53mm	45mm	5mm	7/lb	\$17.70
S465-093	11	56mm	48mm	5mm	6/lb	\$17.70
S465-090	11½	63mm	50mm	5mm	6/lb	\$17.70
T660-407	12	64mm	54mm	5mm	5/lb	\$17.70
S465-096	13	68mm	58mm	5mm	4/lb	\$6.00
T660-410	14	90mm	75mm	5mm	1/lb	\$17.70
T660-413	15	103mm	83mm	5mm	1/lb	\$23.05
T660-416	16	127mm	90mm	5mm	1/lb	\$23.95



CYLINDERS

Education Grade Cylinders with White Metric Scale

This KIMAX® educational grade cylinder is ideal for use in educational institutions and for many general laboratory procedures. "TD" appears on each cylinder and indicates the cylinder is calibrated to deliver. Incorporates many of the features of other KIMAX® cylinders. Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
G535-386	10mL	4/pk	\$84.52	36/cs	\$513.05
G535-387	25mL	4/pk	\$100.26	36/cs	\$608.56
G535-388	50mL	4/pk	\$98.31	36/cs	\$596.72
G535-389	100mL	4/pk	\$111.21	36/cs	\$675.05
G535-390	250mL	2/pk	\$93.71	18/cs	\$568.79
G535-391	500mL	1/pk	\$71.50	12/cs	\$578.65
G535-392	1000mL	1/pk	\$93.40	8/cs	\$503.93
G535-393	2000mL	1/pk	\$156.75	6/cs	\$634.30

SIBATA Student Graduated Cylinders, Class B

SIBATA Student Graduated Cylinders meet ASTM E-1272 Class B, Style I Specifications for Classification and Tolerances. These cylinders are made of two parts: a strong, accurate glass graduate and a detachable, sturdy plastic hexagonal base which absorbs impacts and reduces breakage. All cylinders feature protective hexagonal bumper guards.



Part No.	Capacity	Qty	List
C900-029	10mL	6/pk	\$30.80
C900-030	25mL	6/pk	\$34.00
C900-031	50mL	6/pk	\$47.20
C900-032	100mL	6/pk	\$57.47

Graduated Cylinders, Glass, Class A, Batch Certified

Cylinders comply with ASTM E1272, Class A standards, batch certified. Double metric scale and calibrated to contain. Borosilicate glass cylinders with pour spouts feature heavy uniform wall tubing and strong, stable, hexagonal bases. All cylinders come with bumper guards. Cylinders are calibrated to contain.



Part No.	Capacity	Qty/pk	List/pk	Qty/cs	List/cs
C221-918	10mL	1/pk	\$12.82	24/cs	\$307.68
C221-914	25mL	1/pk	\$16.14	18/cs	\$290.52
C221-912	50mL	1/pk	\$17.79	18/cs	\$320.22
C221-917	100mL	1/pk	\$23.65	12/cs	\$283.80
C221-913	250mL	1/pk	\$26.63	12/cs	\$319.56
C221-911	500mL	1/pk	\$45.80	8/cs	\$366.38
C221-916	1000mL	1/pk	\$77.87	n/a	n/a
C221-915	2000mL	1/pk	\$120.49	n/a	n/a

Class-A Cylinders with Reverse Graduations

KIMAX® Class A cylinder is marked with a reverse metric scale. "TD" appears on each cylinder and indicates the cylinder is calibrated to deliver. SAFE-GARD® bumpers are supplied with sizes 25 through 2000mL.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

Part No.	Capacity	Qty/pk	List/pk	Qty/cs	List/cs
G535-409	10mL	1/pk	\$54.56	6/cs	\$220.79
G535-410	25mL	1/pk	\$59.18	6/cs	\$239.47
G535-411	50mL	1/pk	\$59.81	6/cs	\$242.00
G535-412	100mL	1/pk	\$70.20	6/cs	\$284.07
G535-413	250mL	1/pk	\$95.78	4/cs	\$258.37
G535-414	500mL	1/pk	\$134.82	4/cs	\$363.70
G535-415	1000mL	n/a	n/a	1/cs	\$128.71
G535-416	2000mL	n/a	n/a	1/cs	\$209.98



SIBATA Graduated Cylinders - Class A

SIBATA Graduated Cylinders meet ASTM E-1272 Class A, Style I Specifications & USP Standards for Volumetric Glassware. Feature hexagonal bases for added stability. All cylinders, with the exception of the 2000mL size, feature protective, polyethylene and hexagonal bumper guards. All markings are in durable, white enamel.



Part No.	Capacity	Qty	List
C900-012	5mL	4/pk	\$40.44
C900-013	10mL	4/pk	\$40.44
C900-014	25mL	4/pk	\$55.47
C900-015	50mL	4/pk	\$60.36
C900-016	100mL	4/pk	\$63.11
C900-017	250mL	4/pk	\$88.98
C900-018	500mL	2/pk	\$81.24
C900-019	1000mL	2/pk	\$143.16
C900-020	2000mL	1/pk	\$107.29

Graduated Cylinders, Class B, Borosilicate Glass

Cylinders comply with ASTM E1272, Class B standards.

Double metric scale, calibrated to contain. Borosilicate glass cylinders with pour spouts feature heavy uniform wall tubing and attached glass hexagonal bases. All cylinders come with bumper guards.



Part No.	Capacity	Qty	List
C221-910	10mL	24/pk	\$126.40
C221-906	25mL	18/pk	\$291.23
C221-904	50mL	18/pk	\$237.10
C221-909	100mL	12/pk	\$191.34
C221-905	250mL	12/pk	\$464.97
C221-903	500mL	8/pk	\$409.30
C221-908	1000mL	1/pk	\$76.97
C221-907	2000mL	1/pk	\$143.27

Graduated Cylinders, Class B w/ Pour Spout

The primary function of this TC cylinder is to receive liquids where volumetric calculations are based solely on the volume contained within the cylinder. Among other applications, TC cylinders are frequently used as receivers for the condensate from distillation procedures and sedimentation values of precipitates. "TC" appears on each cylinder and indicates the cylinder is calibrated to contain. 10mL size has an enlarged funnel top for ease of filling. Provided with a hexagonal base flat ground for stability and a SAFE-GARD® bumper on sizes 25mL and larger. Ref: ASTM Method D86, D892

Designed from ASTM E1272, Style I, Class B requirements. Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Capacity	Qty/pk	List/pk	Qty/cs	List/cs
G535-341	10mL	1/pk	\$27.12	12/cs	\$219.47
G535-342	25mL	n/a	n/a	1/cs	\$26.63
G535-343	50mL	1/pk	\$37.06	12/cs	\$299.86
G535-344	100mL	1/pk	\$43.15	12/cs	\$349.23
G535-345	250mL	1/pk	\$61.55	6/cs	\$249.05
G535-346	500mL	1/pk	\$97.51	4/cs	\$263.05
G535-347	1000mL	1/pk	\$124.23	4/cs	\$335.14
G535-348	2000mL	1/pk	\$215.21	2/cs	\$290.28

SIBATA Graduated Cylinders, Class B

SIBATA Graduated Cylinders meet ASTM E-1272 Class B, Style I Specifications. Feature hexagonal bases for added stability. All cylinders with the exception of the 2000mL size feature protective, polyethylene and hexagonal bumper guards. All markings are in durable, white enamel.



Part No.	Capacity	Qty/ea	List/ea	Qty/pk	List/pk
C900-021	10mL	n/a	n/a	4/pk	\$39.20
C900-022	25mL	1/ea	\$13.47	4/pk	\$53.87
C900-023	50mL	1/ea	\$14.78	4/pk	\$59.11
C900-024	100mL	1/ea	n/a	4/pk	\$61.96
C900-025	250mL	1/ea	n/a	4/pk	\$87.11
C900-026	500mL	1/ea	n/a	2/pk	\$78.09
C900-027	1000mL	1/ea	\$66.58	2/pk	\$133.16
C900-028	2000mL	1/ea	n/a	1/pk	\$100.36



EVAPORATING DISHES

Round Form Evaporating Dishes

Dishes have lip. Dishes from 35mL to 250mL capacity are glazed inside and outside. Dishes 385mL and larger are glazed inside and partially outside. Autoclavable. Withstand temperatures to 1150°C. To prevent thermal stress cracks, we strongly recommend a heating/cooling rate not exceeding 200°C per hour. United porcelain evaporating dishes offer excellent resistance to acids and alkalis except for hydrofluoric acid.

Thermal Shock Resistance - average coefficient of expansion from 20°C to 200°C is 3.56×10^{-5} , gradually increasing to 4.69×10^{-5} at 1050°C. Every batch of porcelain is heat tested in manufacturer's factory.

Glaze - No softening occurs up to 1000°C and it is extremely white.

Resistance to Chemical Action - Resistance to acids and alkalis is excellent, except for hydrofluoric acid.



Part No.	Capacity	Top OD	Qty	List
B724-506	35mL	60mm	6/pk	\$35.90
B724-505	70mL	75mm	6/pk	\$36.87
B724-504	80mL	80mm	6/pk	\$52.65
B724-503	120mL	94mm	6/pk	\$68.23
B724-501	150mL	100mm	6/pk	\$57.74
B724-499	250mL	115mm	6/pk	\$95.12
B724-497	385mL	145mm	1/pk	\$30.69

Porcelain Evaporating Dishes, Economy

These glazed evaporating dishes can withstand temperatures up to 1050 degrees Celsius. Each dish is individually packed.

Part No.	Capacity	Top Outside Diameter	Qty	List
B725-455	35mL	60mm	1/pk	\$2.20
B725-456	50mL	70mm	1/pk	\$12.01
B725-457	75mL	82mm	1/pk	\$2.18
B725-458	100mL	90mm	1/pk	\$2.70
B725-459	125mL	98mm	1/pk	\$5.00



Evaporating Dishes, Flat Form, Porcelain

Shallow form with lip and flat bottom. Glazed except for rim and part of outside bottom.

Autoclavable. Withstand temperatures to 1150°C. To prevent thermal stress cracks, we strongly recommend a heating/cooling rate not exceeding 200°C per hour. These porcelain evaporating dishes offer excellent resistance to acids and alkalis except for hydrofluoric acid.

Thermal Shock Resistance - average coefficient of expansion from 20°C to 200°C is 3.56×10^{-5} , gradually increasing to 4.69×10^{-5} at 1050°C. Every batch of porcelain is heat tested in our factory.

Glaze - No softening occurs up to 1000°C and it is extremely white.

Resistance to Chemical Action - Resistance to acids and alkalis is excellent, except for hydrofluoric acid.



Part No.	Capacity	Top Outside Diameter	Qty	List
B724-494	35mL	65mm	6/pk	\$53.40
B724-493	50mL	75mm	6/pk	\$28.86
B724-492	80mL	85mm	6/pk	\$33.40
B724-491	100mL	100mm	6/pk	\$44.05
B724-490	200mL	120mm	6/pk	\$100.50
B724-489	300mL	150mm	6/pk	\$209.36

Evaporating Dishes

VEE GEE evaporating dishes are manufactured with the highest standards and are glazed inside and on the outside lip.

Part No.	Capacity	Approx. O.D.	Qty	List
C900-076	30mL	63 x 25mm	5/pk	\$50.00
C900-077	60mL	80 x 32mm	5/pk	\$58.67
C900-078	107mL	81 x 38mm	5/pk	\$61.67
C900-079	150mL	100 x 40mm	5/pk	\$80.00
C900-080	232mL	112 x 47mm	5/pk	\$108.33



FLASKS**Boiling****Short Neck Flat Bottom Boiling Flask**

KIMAX® boiling flask with a short (24/40) Standard Taper joint neck. Designed from ASTM Specification E1403, Type I, Class IV requirements. Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Capacity	Qty/pk	List/pk	Qty/cs	List/cs
F419-020	125mL	1/pk	\$55.29	12/cs	\$447.42
F419-021	250mL	1/pk	\$54.73	12/cs	\$442.93
F419-022	300mL	1/pk	\$83.24	12/cs	\$673.67
F419-023	500mL	1/pk	\$60.95	12/cs	\$473.28
F419-019	1000mL	1/pk	\$65.70	12/cs	\$531.67

Flat Bottom Boiling Flasks

Low-expansion borosilicate glass. Feature uniform wall thickness for superior mechanical strength and shock resistance.



Part No.	Capacity	Qty	List
B724-675	50mL	6/pk	\$48.30
B724-681	100mL	6/pk	\$36.89
B725-154	150mL	6/pk	\$59.85
B724-677	250mL	6/pk	\$65.50
B725-155	300mL	6/pk	\$101.40
B724-674	500mL	6/pk	\$106.35
B724-680	1000mL	1/pk	\$25.25
B724-679	2000mL	1/pk	\$44.85
B724-676	3000mL	1/pk	\$129.40
B725-156	5000mL	1/pk	\$162.65

Round Bottom, Short Neck Boiling Flasks

KIMAX® boiling flask with a round bottom. Designed from ASTM Specification E1403, Type II, Class III requirements.

Ref: ASTM Method D322

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

**Standard Taper Joints: 14/20**

Part No.	Capacity	Height	Body OD	Qty/pk	List/pk	Qty/cs	List/cs
F419-028	100mL	93mm	63mm	2/pk	\$114.43	12/cs	\$463.02
F419-029	250mL	116mm	82mm	2/pk	\$185.12	12/cs	\$749.09

Standard Taper Joints: 19/22

Part No.	Capacity	Height	Body OD	Qty/pk	List/pk	Qty/cs	List/cs
F419-030	100mL	100mm	63mm	2/pk	\$105.26	12/cs	\$425.93
F419-031	250mL	118mm	82mm	2/pk	\$139.86	12/cs	\$566.16
F419-032	500mL	142mm	102mm	2/pk	\$174.55	12/cs	\$706.33

Standard Taper Joints: 24/40

Part No.	Capacity	Height	Body OD	Qty/pk	List/pk	Qty/cs	List/cs
F419-033	50mL	100mm	48mm	n/a	n/a	12/cs	\$398.95
F419-034	100mL	115mm	63mm	2/pk	\$93.79	12/cs	\$379.51
F419-035	200mL	130mm	75mm	2/pk	\$136.61	12/cs	\$552.79
F419-036	250mL	140mm	83mm	2/pk	\$98.59	12/cs	\$398.95
F419-037	300mL	145mm	88mm	2/pk	\$139.27	12/cs	\$563.56
F419-038	500mL	160mm	102mm	2/pk	\$108.45	12/cs	\$438.86
F419-062	1000mL	190mm	130mm	2/pk	\$123.27	12/cs	\$498.81
F419-039	2000mL	230mm	161mm	1/pk	\$113.43	6/cs	\$458.98
F419-040	3000mL	255mm	185mm	1/pk	\$199.59	6/cs	\$807.63

Accessories**Polypropylene Round-Bottom Flask Support**

For Flasks up to 10 Liters, 6¾ Diam. x 2 in.H. Stepped Holder Cradles Flasks. Round-bottom flasks of any size up to 10 liters are cradled securely in the stepped concentric rings of this holder. Can be stacked together for convenient storage. Polypropylene plastic rack; not affected by spilled acids, alkalis or other corrosive liquids. Steam autoclavable at 121°C (250°F).

Part No.	Dimensions (Diam. x H)	Qty	List
M441-344	17.1 x 5.1cm (6¾ x 2")	1/pk	\$46.50



Round Bottom Boiling Flasks

Low-expansion borosilicate glass. Feature uniform wall thickness for superior mechanical strength and shock resistance.



Part No.	Capacity	Qty	List
B724-670	25mL	6/pk	\$46.15
B724-667	50mL	6/pk	\$48.50
B724-673	100mL	6/pk	\$37.61
B725-157	125mL	6/pk	\$59.85
B725-158	150mL	6/pk	\$59.85
B724-669	250mL	6/pk	\$62.10
B725-160	300mL	6/pk	\$66.45
B724-666	500mL	6/pk	\$65.40
B724-672	1000mL	6/pk	\$133.95
B724-671	2000mL	1/pk	\$81.40
B724-668	3000mL	1/pk	\$129.40

Erlenmeyer

Erlenmeyer Flask with Pennyhead Stopper

KIMAX® flask with a Standard Taper ground glass stopper neck finish.
With capacity scale; stopper is included; ask us about replacement stoppers.
Designed from ASTM Specification E1404, Type II, Class II requirements.



Part No.	Capacity / Stopper#	Qty/pk	List/pk	Qty/cs	List/cs
F262-243	25mL / 16	2/pk	\$84.23	12/cs	\$340.84
F262-244	50mL / 19	2/pk	\$81.81	12/cs	\$331.02
F262-245	125mL / 22	2/pk	\$97.24	12/cs	\$393.47
F262-246	250mL / 27	2/pk	\$116.74	12/cs	\$472.37
F262-247	500mL / 32	2/pk	\$144.82	8/cs	\$390.67
F262-248	1000mL / 32	1/ea	\$93.00	6/cs	\$376.33

Wide-Mouth Erlenmeyer flask

Heavy-duty tooled-top finish with capacity scale. KIMAX® flask with a wide mouth.
Ref: ASTM Method D473.

Designed from ASTM Specification E1404, Type I, Class II requirements.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

Stopper size listed is for rubber stopper.



Part No.	Capacity / Stopper#	Qty/pk	List/pk	Qty/cs	List/cs
F253-125	125mL / 6	12/pk	\$119.58	48/cs	\$322.58
F253-250	250mL / 8	12/pk	\$127.23	48/cs	\$343.23
F253-500	500mL / 10	6/pk	\$80.20	36/cs	\$324.51
F253-010	1000mL / 11	6/pk	\$133.74	24/cs	\$360.79
F253-020	2000mL / 13	4/pk	\$167.09	8/cs	\$225.37

Narrow Mouth Erlenmeyer Flasks

VEE GEE Erlenmeyer Flasks meet ASTM E-1404 Type I, Class 1 Specifications for Classification, design, capacity & dimensions and markings. These Erlenmeyer flasks feature heavy-duty rims to reduce chipping, white, permanent graduations and large marking squares. Made from high-quality borosilicate tubing with a low coefficient of expansion. Borosilicate tubing also provides uniform wall thickness resulting in the optimum balance between thermal shock resistance and mechanical strength.



Part No.	Capacity / Stopper#	Qty/pk	List/pk	Qty/cs	List/cs
F552-018	25mL / 0	12/pk	\$35.20	n/a	n/a
F552-019	50mL / 1	12/pk	\$41.07	n/a	n/a
F552-020	125mL / 5	12/pk	\$56.27	48/cs	\$225.08
F552-021	250mL / 6	12/cs	\$70.93	48/cs	\$283.72
F552-022	500mL / 7	6/pk	\$53.73	36/cs	\$322.38
F552-023	1000mL / 9	6/pk	\$91.07	n/a	n/a
F552-024	2000mL / 10	1/pk	\$30.74	n/a	n/a

Wide Mouth Erlenmeyer Flasks

VEE GEE Erlenmeyer Flasks meet ASTM E-1404 Type I, Class 1 Specifications for Classification, design, capacity & dimensions and markings. These Erlenmeyer flasks feature heavy-duty rims to reduce chipping, white, permanent graduations and large marking squares. Made from high-quality borosilicate tubing with a low coefficient of expansion. Borosilicate tubing also provides uniform wall thickness resulting in the optimum balance between thermal shock resistance and mechanical strength.



Part No.	Capacity	Stopper#	Qty	List
F552-025	125mL	5	12/pk	\$56.27
F552-026	250mL	6	12/pk	\$69.60
F552-027	500mL	7	6/pk	\$53.73
F552-028	1000mL	9	6/pk	\$91.07
F552-029	2000mL	10	1/pk	\$30.44

Narrow Mouth Erlenmeyer Flasks, Borosilicate Glass

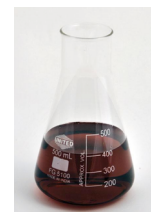
Borosilicate glass flasks are designed to give the best combination of thermal shock resistance and physical strength. Feature heavy-duty rims and graduations in durable white enamel.



Part No.	Capacity	Qty/pk	List/pk	Qty/cs	List/cs
B724-659	10mL	12/pk	\$38.25	n/a	n/a
B724-653	25mL	12/pk	\$53.94	48/cs	\$215.76
B724-650	50mL	12/pk	\$54.90	48/cs	\$219.60
B724-658	100mL	12/pk	\$53.23	48/cs	\$212.92
B724-656	125mL	12/pk	\$74.55	48/cs	\$298.20
B724-655	150mL	6/pk	\$34.74	24/cs	\$138.96
B724-652	250mL	12/pk	\$89.36	48/cs	\$357.44
B724-649	500mL	6/pk	\$85.44	36/cs	\$512.64
B724-657	1000mL	6/pk	\$115.21	24/cs	\$460.84
B724-654	2000mL	1/pk	\$38.86	8/cs	\$310.88
B724-651	3000mL	1/pk	\$58.80	n/a	n/a
B724-648	5000mL	1/pk	\$107.80	n/a	n/a

Wide Mouth Erlenmeyer Flask, Borosilicate Glass

Wide mouth flasks are ideal for titrations and culture work. Borosilicate glass flasks are designed to give the best combination of thermal shock resistance and physical strength. Feature heavy-duty rims and graduations in durable white enamel.



Part No.	Capacity	Qty	List
B724-642	100mL	12/pk	\$55.85
B724-640	125mL	12/pk	\$62.63
B724-639	250mL	12/pk	\$69.35
B724-638	500mL	6/pk	\$54.85
B724-641	1000mL	6/pk	\$93.93

Flask-Erlenmeyer

Meet ASTM E-1404 Type I, Class 1 Specifications for Classification, design, capacity & dimensions and markings. These Erlenmeyer flasks feature heavy-duty rims to reduce chipping, white, permanent graduations and large marking squares. Made from high-quality borosilicate tubing with a low coefficient of expansion. Borosilicate tubing also provides uniform wall thickness resulting in the optimum balance between thermal shock resistance and mechanical strength.



Part No.	Capacity	Stopper #	Qty/pk	List/pk	Qty/cs	List/cs
F552-018	25mL	0	12/pk	\$35.20	n/a	n/a
F552-019	50mL	1	12/pk	\$41.07	n/a	n/a
F552-020	125mL	5	12/pk	\$56.27	48/cs	\$225.08
F552-021	250mL	6	12/pk	\$70.93	48/cs	\$283.72
F552-022	500mL	7	6/pk	\$53.73	36/cs	\$322.38
F552-023	1000mL	9	6/pk	\$91.07	n/a	n/a
F552-024	2000mL	10	1/pk	\$30.44	n/a	n/a

Don't forget your foil cover ups on page 392!



Filtering

Flasks with Standard Taper Joint

The heavy wall construction of this filtering flask assures good mechanical strength under vacuum application. Standard taper outer joint (24/40). Serrated hose connector. Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Capacity	OD	Fits Tubing ID	Qty	List
G537-757	250mL	85mm	3/8"	1/ea	\$127.84
G537-758	500mL	105mm	3/8"	1/ea	\$145.40

Graduated Filtering Flasks Accesories

Detachable autoclavable plastic sidearm designed to accept 5/16 inch ID flexible tubing (U.S. Patent 3,268,300). Sidearm has two ears to provide a finger grip for easy insertion into a neoprene bushing by turning the plastic piece. Opening in the sidearm is larger at the flask end to hold a cotton plug securely. Made with a heavier wall than a standard Erlenmeyer flask. All flasks have durable white ceramic enamel scales to indicate approximate volumes at various levels. Designed from ASTM Specification E1406, Type III, Class II requirements. Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Description	Qty	List
G539-669	Plastic Sidearm and Bushing	1/ea	\$23.74
G538-329	10 Black Neoprene Bushings	10/pk	\$40.44

Graduated Filtering Flasks with Side Tubulation

KIMAX® flask with side tubulation. Capacity scale; flasks are designed for vacuum to 29" of mercury. Made with a heavier wall than a standard Erlenmeyer flask. All sizes have side hose connection designed to accept 5/16 inch ID flexible tubing. Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

Stopper size listed is for rubber stopper.



Part No.	Capacity	Widest OD	Stopper	Qty/pk	List/pk	Qty/cs	List/cs
F264-000	25mL	40mm	3	6/pk	\$278.54	18/cs	\$563.56
F264-001	50mL	48mm	4	6/pk	\$278.54	18/cs	\$563.56
F264-003	125mL	69mm	5	6/pk	\$339.06	18/cs	\$686.00
F264-004	250mL	83mm	6	6/pk	\$214.14	18/cs	\$433.26
F264-005	500mL	104mm	7	6/pk	\$371.40	18/cs	\$751.44
F264-006	1000mL	135mm	8	6/pk	\$586.16	12/cs	\$790.63
F264-007	2000mL	168mm	9	1/pk	\$130.84	n/a	n/a
F264-008	4000mL	208mm	12	1/pk	\$207.30	n/a	n/a

Graduated Filtering Flasks with Deattachable Plastic Sidearm

Detachable autoclavable plastic sidearm designed to accept 5/16 inch ID flexible tubing (U.S. Patent 3,268,300). Sidearm has two ears to provide a finger grip for easy insertion into a neoprene bushing by turning the plastic piece. Opening in the sidearm is larger at the flask end to hold a cotton plug securely. Made with a heavier wall than a standard Erlenmeyer flask. All flasks have durable white ceramic enamel scales to indicate approximate volumes at various levels. Designed from ASTM Specification E1406, Type III, Class II requirements. Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements. Stopper size listed is for rubber stopper.



Part No.	Capacity	Widest OD	Stopper	Qty/pk	List/pk	Qty/cs	List/cs
F264-009	250mL	83mm	6	2/pk	\$124.54	18/cs	\$755.91
F264-010	500mL	104mm	7	2/pk	\$178.98	18/cs	\$1086.40
F264-011	1000mL	135mm	8	2/pk	\$285.87	12/cs	\$1156.79
F264-012	2000mL	168mm	9	n/a	n/a	6/cs	\$164.09
F264-013	4000mL	208mm	12	n/a	n/a	4/cs	\$192.79

Quick Release Hose Barb Connector for Graduated Filtration Flasks

KIMAX® heavy wall filter flasks have a quick-release connector designed as a safety feature. Hose barb accommodates 1/4 inch ID tubing. Tubing can remain permanently attached since the opposite end is designed to be easily assembled via a positive threaded seal. Proper positioning of the connector provides greater flask stability, as tubing angled downward has less tendency to tilt the flask. Flasks are designed for vacuum to 29" of mercury. Made with a heavier wall than a standard Erlenmeyer flask. Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Description	Qty	List
G538-078	Quick-Release Hose Barb Connector	1/ea	\$15.84

Graduated Filtration Flasks with Quick Release Hose Barb Connector

KIMAX® heavy wall filter flasks have a quick-release connector designed as a safety feature.

Hose barb accommodates 1/4 inch ID tubing.

Tubing can remain permanently attached since the opposite end is designed to be easily assembled via a positive threaded seal. Proper positioning of the connector provides greater flask stability, as tubing angled downward has less tendency to tilt the flask.

Flasks are designed for vacuum to 29" of mercury.

Made with a heavier wall than a standard Erlenmeyer flask.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

Stopper size listed is for rubber stopper.



Part No.	Capacity	Widest OD	Stopper Size	Qty/pk	List/pk	Qty/cs	List/cs
F264-014	250mL	83mm	6	n/a	n/a	2/cs	\$74.93
F264-015	500mL	104mm	7	2/pk	\$154.76	8/cs	\$417.49
F264-016	1000mL	135mm	8	n/a	n/a	1/cs	\$92.28
F264-017	2000mL	168mm	9	n/a	n/a	1/cs	\$159.91
F264-018	4000mL	208mm	12	n/a	n/a	1/cs	\$211.84

ULTRA-WARE® Filtering Flasks with Rubber Stopper Joint

This flask is manufactured from heavy wall borosilicate glass to ensure the mechanical strength needed for vacuum filtration.

Side arm accepts 3/8" ID tubing for connection to vacuum sources.

Rubber stopper joint.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

A second flask should be connected between the filtering flask and the vacuum source to prevent accidental entry of the filtrate into the vacuum line or pump.



Part No.	Capacity	Stopper Joint	Qty	List
G539-442	125mL	#5	1/ea	\$53.30
G539-458	1000mL	#8	1/ea	\$94.23
G539-461	2000mL	#8	1/ea	\$161.02
G539-463	4000mL	#8	1/ea	\$234.30

Silicone Stopper with Holes

General purpose single-hole silicone rubber stoppers.

Steam autoclavable

Opaque yellowish-white color

G539-468 is white

Stoppers are manufactured from pure silicone rubber

Height: 25mm



Part No.	Description	Qty	List
G539-445	#5 with 3/8" hole, Top OD 27mm, Bottom OD 23mm	1/ea	\$22.70
G539-446	#8 with 3/8" hole, Top OD 41mm, Bottom OD 33mm	1/ea	\$29.40
G539-467	#8 with 9/16" hole, Top OD 41mm, Bottom OD 33mm	1/ea	\$28.42
G539-466	#8 with 9/16" hole, Top OD 41mm, Bottom OD 33mm	5/cs	\$156.14
G539-468	#12 with 9/16" hole, Top OD 64mm, Bottom OD 54mm	1/ea	\$32.23

ULTRA-WARE® Filtering Flask with Rubber Stopper Joint

This flask is manufactured from heavy wall borosilicate glass to ensure the mechanical strength needed for vacuum filtration.

Side arm accepts 3/8" ID tubing for connection to vacuum sources

Rubber stopper joint

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

*A second flask should be connected between the filtering flask and the vacuum source to prevent accidental entry of the filtrate into the vacuum line or pump.



Part No.	Capacity	Stopper Joint	Qty	List
G539-442	125mL	#5	1/ea	\$53.30
G539-458	1000mL	#8	1/ea	\$94.23
G539-461	2000mL	#8	1/ea	\$161.02
G539-463	4000mL	#8	1/ea	\$234.30



Filtering Flasks

VEE GEE Filtering Flasks meet ASTM E-1406 Type II, Class 1 Specifications for Classification, design, capacity & dimensions and markings. These filtering flasks feature heavy-duty rims to reduce chipping, white, permanent graduations and large marking squares. Made from high-quality borosilicate tubing with a low coefficient of expansion. Borosilicate tubing also provides uniform wall thickness resulting in the optimum balance between thermal shock resistance and mechanical strength.



Part No.	Capacity	Stopper #	Qty/pk	List/pk	Qty/cs	List/cs
F552-030	250mL	6	6/pk	\$129.20	n/a	n/a
F552-031	500mL	7	6/pk	\$163.07	18/cs	\$489.21
F552-032	1000mL	8	6/pk	\$238.40	12/cs	\$119.20
F552-033	2000mL	9	1/pk	\$75.98	n/a	n/a

Filtering Flasks, Borosilicate Glass

Heavy wall borosilicate filtering flask includes a heavy-duty rim and a bolt neck with tubulation. Graduations are printed in durable white enamel.



Tube Size: 3/8"

Part No.	Capacity	O.D. x Height	Qty/pk	List/pk	Qty/cs	List/cs
B724-633	50mL	52 x 85mm	6/pk	\$77.80	n/a	n/a
B724-637	100mL	64 x 108mm	6/pk	\$125.80	n/a	n/a
B724-634	250mL	86 x 160mm	1/pk	\$20.81	18/cs	\$374.58
B724-632	500mL	108 x 190mm	1/pk	\$25.97	18/cs	\$467.46
B724-636	1000mL	138 x 245mm	1/pk	\$40.13	n/a	n/a

Tube Size: 1/2"

Part No.	Capacity	O.D. x Height	Qty	List
B724-635	2000mL	170 x 305mm	1/ea	\$65.95
B724-631	5000mL	237 x 390mm	1/ea	\$194.68

Kjeldahl

Tooled Neck Kjeldahl Flask

KIMAX® Kjeldahl flasks have a reinforced bead at the top and a long neck to trap splashes. The 500 and 800mL sizes have tooled necks to take rubber stoppers especially made for Kjeldahl flasks, providing an accurate stopper fit and reducing the possibility of breakage in use. The 10 and 30mL are designed from ASTM Specification E147 and larger sizes are designed from ASTM Specification E1377, Type I requirements. Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

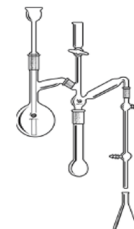
Stopper size listed is for rubber stopper.



Part No.	Capacity / Stopper	Qty/pk	List/pk	Qty/cs	List/cs
F264-034	300mL / 0	6/pk	\$234.41	18/cs	\$474.28
F264-033	100mL / 1	6/pk	\$200.34	24/cs	\$540.44
F264-035	500mL / 6	6/pk	\$276.79	24/cs	\$746.67
F264-036	800mL / 7	6/pk	\$252.06	18/cs	\$509.98

Kjeldahl Distillation Apparatus

Supplied with a 500mL round bottom boiling flask with a 24/40 joint and sidearm with 14/35 inner joint. A 50mL digestion flask with a 24/40 joint, filling funnel with a 24/40 joint and an addition funnel with 4mm bore stopcock is provided. Attached to the filling funnel are two sidearms, one a 14/35 inner and one a 14/35 outer. A Liebig condenser with a 14/35 joint and a plain drip tip tube complete the glass assembly. Appropriate clamps are furnished to secure the apparatus.



Part No	Description	Qty	List
G573-101	Distillation Apparatus	1/ea	\$1044.40

Accessories

Part No	Description	Qty	List
G573-102	Flask, 500mL 24/400 14/35 S	1/ea	\$195.71
G573-103	Flask, 50mL 24/40	1/ea	\$85.33
G573-104	Separatory Funnel, 24/40 I 14/35	1/ea	\$522.36
G573-105	Liebig Condenser 14/35O	1/ea	\$211.56
G573-106	Filling Funnel 24/40 I	1/ea	\$99.60

Volumetric

Volumetric Flask with Standard Taper Stopper

KIMAX® flask with a single graduation ring blasted on the neck, calibrated to contain.

A Standard taper ground glass stopper is supplied.

Marking spots on all sizes.

Sizes 5mL and larger are designed from ASTM specification E288, Class A requirements.

1 and 2mL sizes are test tube-shaped and are calibrated to E237 tolerances.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and

ASTM E438, Type I, Class A requirements.



Part No.	Capacity / Stopper	Qty/pk	List/pk	Qty/cs	List/cs
F264-110	1mL / 8	n/a	n/a	12/cs	\$454.28
F264-111	2mL / 8	n/a	n/a	12/cs	\$484.44
F264-112	5mL / 9	n/a	n/a	12/cs	\$378.49
F264-113	10mL / 9	n/a	n/a	12/cs	\$453.23
F264-114	25mL / 9	6/pk	\$363.87	12/cs	\$490.79
F264-115	50mL / 9	6/pk	\$387.81	12/cs	\$523.09
F264-116	100mL / 13	6/pk	\$413.71	12/cs	\$558.02
F264-117	200mL / 16	6/pk	\$477.99	12/cs	\$644.72
F264-118	250mL / 16	6/pk	\$514.16	12/cs	\$693.51
F264-119	500mL / 19	6/pk	\$640.26	12/cs	\$863.61
F264-120	1000mL / 22	1/pk	\$129.30	6/cs	\$526.21
F264-121	2000mL / 27	1/pk	\$163.32	4/cs	\$440.58

Class A Volumetric Flask to Contain with Polyethylene Stopper

KIMAX® flask with a graduation ring blasted on the neck.

Calibrated to contain.

With a marking spot on sizes 10mL and larger.

Supplied with a high density polyethylene stopper to fit in the Standard Taper ground neck.

Enlarged top of the stopper will protect the neck if the flask is tipped over.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438,

Type I, Class A requirements.



Part No.	Capacity	Stopper	Qty/pk	List/pk	Qty/cs	List/cs
F264-140	5mL	9	n/a	n/a	12/cs	\$430.54
F264-141	10mL	9	n/a	n/a	12/cs	\$391.16
F264-142	25mL	9	6/pk	\$314.00	12/cs	\$423.54
F264-143	50mL	9	6/pk	\$338.16	12/cs	\$456.12
F264-144	100mL	13	6/pk	\$350.76	12/cs	\$473.12
F264-145	200mL	16	6/pk	\$409.40	12/cs	\$552.21
F264-146	250mL	16	6/pk	\$434.83	12/cs	\$586.51
F264-147	500mL	19	6/pk	\$558.95	12/cs	\$753.93
F264-148	1000mL	22	1/pk	\$113.67	6/cs	\$459.95
F264-149	2000mL	27	1/pk	\$143.90	4/cs	\$388.19

Class A Mixing Bulb Style Flask with Standard Taper Stoppers

The mixing bulb in the neck, between the stopper and capacity ring, contains approximately one tenth of the capacity of the body and is designed to aid in dissolving or mixing the contents of the flask.

KIMAX® flask with a graduation ring blasted on the neck.

Calibrated to contain.

With a marking spot.

Standard Taper ground glass stopper is supplied.

Replacement stoppers are available.

Designed from ASTM Specification E288, Class A requirements.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438,

Type I, Class A requirements.



Part No.	Capacity	Stopper	Qty/pk	List/pk	Qty/cs	List/cs
F264-186	50mL	9	1/pk	\$189.50	6/cs	\$766.79
F264-187	100mL	13	1/pk	\$155.90	4/cs	\$420.56
F264-188	250mL	16	1/pk	\$228.04	4/cs	\$615.16
F264-189	500mL	19	1/pk	\$262.99	4/cs	\$709.46
F264-190	1000mL	22	1/pk	\$266.24	4/cs	\$718.23



Class A Volumetric Flask with Snap Cap

KIMAX® flask calibrated to contain.

Supplied with a polyethylene snap cap; Replacement caps are available.

Designed from ASTM Specification E288, Class A requirements.

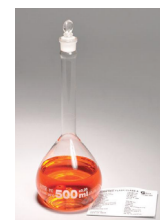
Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I Class A requirements.



Part No.	Capacity	Cap #	Qty/pk	List/pk	Qty/cs	List/cs
G535-002	10mL	2	n/a	n/a	12/cs	\$334.98
G535-003	25mL	2	6/pk	\$262.74	12/cs	\$354.40
G535-004	50mL	3	6/pk	\$270.11	12/cs	\$364.33
G535-005	100mL	4	6/pk	\$281.47	12/cs	\$379.65
G535-006	200mL	5	6/pk	\$361.02	12/cs	\$486.95
G535-007	250mL	5	6/pk	\$396.14	12/cs	\$534.33
G535-008	500mL	5	6/pk	\$472.33	12/cs	\$637.09
G535-009	1000mL	6	1/pk	\$89.12	6/cs	\$360.63
G535-010	2000mL	8	1/pk	\$151.01	4/cs	\$407.37

Volumetric Flasks, Class A, with Glass Stopper, Batch Certified

Durable, machine-blown body. Heavy beaded tubing neck. Flasks feature a sharp graduation line and large white block letters. A ground glass stopper is included. Meets Class A specifications per ASTM E288. Batch certified.



Part No.	Capacity	Stopper Size	Qty	List
B724-598	5mL	9	1/ea	\$20.70
B724-606	10mL	9	1/ea	\$24.16
B724-603	20mL	9	1/ea	\$44.50
B724-600	25mL	9	1/ea	\$25.80
B724-597	50mL	9	1/ea	\$26.69
B724-605	100mL	13	1/ea	\$28.31
B724-602	200mL	16	1/ea	\$39.38
B724-599	250mL	16	1/ea	\$43.31
B724-596	500mL	19	1/ea	\$50.66
B724-604	1000mL	22	1/ea	\$63.77
B724-601	2000mL	27	1/ea	\$109.35

Flask, Volumetric

SIBATA Volumetric Flasks meet ASTM E-288 Class A Specifications & USP Standards for Volumetric Glassware. Feature machine-blown bodies and heavy-beaded, heavy-tubing necks, tooled for snap-cap fit. The graduation line is sharp and permanent; large, white, block-letters allow the labeling to be easily read. Features a large marking square. All sizes are supplied with a snap cap.

Part No.	Capacity	Cap #	Qty/pk	List/pk	Qty/cs	List/cs
F552-034	5mL	1	6/pk	\$69.20	72/cs	\$830.40
F552-035	10mL	1	6/pk	\$69.20	n/a	n/a
F552-036	25mL	2	6/pk	\$80.93	n/a	n/a
F552-037	50mL	3	4/pk	\$55.82	48/cs	\$669.84
F552-038	100mL	3	4/pk	\$59.29	48/cs	\$711.48
F552-039	200mL	4	4/pk	\$79.20	n/a	n/a
F552-040	250mL	4	4/pk	\$85.42	n/a	n/a
F552-041	500mL	5	2/pk	\$56.49	12/cs	\$338.94
F552-042	1000mL	6	2/pk	\$80.36	8/cs	\$321.44



SIBATA Micro Volumetric Flasks

Meets ASTM E-237 Class A, Style I Specifications. Feature machine-blown bodies and heavy-beaded, heavy-tubing necks, tooled for ST stoppers. The graduation line is sharp and permanent; large, white, block-letters allow the labeling to be easily read. Both sizes feature hexagonal bases for added stability and are supplied with a glass ST stopper.

Part No.	Capacity	Stopper #	Qty	List
F552-043	1mL	9	6/pk	\$108.67
F552-044	2mL	9	6/pk	\$108.67
F552-045	5mL	9	6/pk	\$102.40
F552-046	10mL	9	6/pk	\$102.40
F552-047	25mL	9	6/pk	\$102.40
F552-048	50mL	13	4/pk	\$75.56
F552-049	100mL	13	4/pk	\$79.91
F552-050	200mL	16	4/pk	\$108.18
F552-051	250mL	16	4/pk	\$120.89
F552-052	500mL	19	2/pk	\$70.09



Amber Flask-Volumetric

SIBATA Low-Actinic Amber Volumetric Flasks meet ASTM E-288 Class A Specifications & USP Standards for Volumetric Glassware. Feature machine-blown bodies and heavy-beaded, heavy-tubing necks, tooled for ST stoppers. The graduation line is sharp and permanent; large, white, block-letters allow the labeling to be easily read. Features a large marking square. The low-actinic amber stained glass provides protection for materials sensitive to light. All sizes are supplied with a glass ST stopper.



Part No.	Capacity	Stopper #	Qty	List
F552-055	10mL	9	6/pk	\$100.27
F552-056	20mL	9	6/pk	\$127.73
F552-057	25mL	9	6/pk	\$127.73
F552-058	50mL	13	4/pk	\$92.71
F552-059	100mL	13	4/pk	\$105.16
F552-060	200mL	16	4/pk	\$220.44
F552-061	250mL	16	4/pk	\$253.24
F552-062	500mL	19	2/pk	\$172.22
F552-063	1000mL	22	2/pk	\$259.82

Volumetric Flasks, Class A, with Snap Cap, Batch Certified

Durable, machine-blown body. Heavy beaded tubing neck. Flasks feature a sharp graduation line and large white block letters. A plastic snap cap is included. Meets Class A specifications per ASTM E288. Batch certified.



Part No.	Capacity	Cap #	Qty	List
B724-625	50mL	3	1/pk	\$18.42
B724-630	100mL	4	1/pk	\$20.19
B724-628	200mL	5	1/pk	\$25.36
B724-626	250mL	5	1/pk	\$29.14
B724-624	500mL	5	1/pk	\$35.34
B724-629	1000mL	6	1/pk	\$51.64
B724-627	2000mL	8	2/pk	\$169.14

Flask Accessories

Flask Tongs, Stainless Steel

Stainless steel flask tongs are 12" long with riveted joints. Heavy duty construction safely accommodates flasks up to 5000mL. Silicone-coated jaws grip flasks firmly and open to 6".



Part No.	Description	Qty	List
C221-881	Flask Tongs, Stainless Steel	1/ea	\$29.85

Flask Stand, PP

For use with flasks up to 10L, this polypropylene stand is ribbed to safely hold flasks in place. Autoclavable.



Part No.	Description	Qty	List
B724-739	Flask Stand, PP	1/ea	\$16.35

Flask Mug, Borosilicate Glass

This 500mL borosilicate glass flask features an attached handle and a smooth rim. The molecular structure of caffeine is enameled in white on one side and the other side has standard flask graduations.



Available Now!



Beaker Mugs, Borosilicate Glass

These borosilicate glass beakers feature an attached handle and a smooth rim. The molecular structure of caffeine is enameled in white on one side and the other side has dual metric graduations. Available in Low Form 400mL and Tall Form 600mL versions.



SIBATA ST Glass Stoppers

Meets ASTM E-675 Specifications. These stoppers are lightweight yet very strong to reduce chipping and breakage, thus minimizing replacement costs. The flat top design allows the stopper to stand on its head, which frees the users hand and minimizes potential contamination. Interchangeable with other common flask stoppers and fit all standard labware of comparable ST size.

Length of Ground Zone is approximate.

Height is Height Above Ground Joint.



Part No.	Stopper #	Tinting	Ground Zone	Height	Qty	List
S550-007	16	Clear	16.5mm	18mm	6/pk	\$33.73
S550-008	19	Clear	19mm	18mm	6/pk	\$37.73
S550-009	22	Clear	20.5mm	20mm	6/pk	\$43.60
S550-010	27	Clear	21mm	21mm	6/pk	\$77.07
S550-005	9	Clear	14mm	10mm	6/pk	\$25.73
S550-006	13	Clear	14mm	13mm	6/pk	\$25.73

SIBATA ST Amber Glass Stoppers

Meet ASTM E-675 Specifications. These stoppers are lightweight yet very strong to reduce chipping and breakage, thus minimizing replacement costs. The flat top design allows the stopper to stand on its head, which frees the users hand and minimizes potential contamination. Interchangeable with other common flask stoppers and fit all standard labware of comparable ST size..

Length of Ground Zone is approximate.

Height is Height Above Ground Joint.



Part No.	Stopper #	Tinting	Ground Zone	Height	Qty	List
S550-011	9	Amber	14mm	10mm	6/pk	\$42.00
S550-012	13	Amber	14mm	13mm	6/pk	\$42.80
S550-013	16	Amber	16.5mm	18mm	6/pk	\$55.60
S550-014	19	Amber	19mm	18mm	6/pk	\$59.87
S550-015	22	Amber	20.5mm	20.5mm	6/pk	\$85.60

Filtering Bottle - 10000mL

Part No. B725-544

Borosilicate Glass

With its thick glass walls and sturdy construction, this 10L bottle/flask is perfect for filtering large volumes of liquid. The thick walls and design enables this flask to withstand vacuum filtration without imploding. Graduated in 1000mL increments on a scale from 2000mL to 8000mL with an accuracy of $\pm 5\%$. Neck size fits a #13 rubber stopper.



We also have many different types of stoppers. Cork, glass, polyethylene, rubber and silicone.



SIBATA ST Polyethylene Stoppers

Meet ASTM E-675 Specifications. These stoppers are made with closed bottoms and polyethylene, which conform to ST stopper dimensions. The three unit rings on the base provide an efficient seal. Can be used in place of conventional ST flask stoppers.



Part No.	Description	Qty	List
S550-000	Polyethylene Stopper No. 9	50/pk	\$54.44
S550-001	Polyethylene Stopper No. 13	50/pk	\$68.89
S550-002	Polyethylene Stopper No. 16	50/pk	\$68.89

Round Lead Ring Flask Weights with Vikem Vinyl Coating

Reduces breakage, floating and spills.

Protect and stabilize expensive glassware with these Vikem® vinyl coated lead rings.

Stabilize glassware immersed in water baths; reduces floating, breakage and chemical spills.

Bright red Vikem® vinyl coating.

Chemical-resistant.

Will not scratch flasks.

Available in five diameter/weight combinations.



Part No.	Approx. Weight	O.d.	I.d.	Fits Glassware	Qty	List
M440-377	165gm	51mm	19mm	5-10mL Cylinders	1/pk	\$35.48
M440-378	227gm	76mm	43mm	125-500mL Flasks	1/pk	\$41.63
M440-379	454gm	89mm	51mm	250-1000mL Flasks	1/pk	\$48.08
M440-380	681gm	102mm	56mm	500-2000mL Flasks	1/pk	\$57.45
M440-381	908gm	114mm	71mm	1000-4000mL Flasks	1/pk	\$61.95

“Wire” Lead Flask Weight with Vikem Vinyl Coating

Conforms to any shape.

These lead weights can be coiled into a helix, spiral, cone or any irregular shape to stabilize vessels in a water bath.

Flexible; versatile.

Coil around flasks, thread through handles or loop around bottle necks.

Coated with chemical resistant red Vikem® vinyl to protect glassware.

Available in two weights; 30cm (12”) long.



Part No.	Description	Qty	List
M440-396	114gm (4oz) Flask Weight	1/pk	\$47.55
M440-397	176gm (6.2oz) Flask Weight	1/pk	\$66.45

“C”-Shape Open Lead Ring Flask Weights with Vikem Vinyl Coating

No need to remove tubing.

Lead rings fit neatly around the neck of filtering flasks with side-arm tubing connections without disconnecting the tubing.

Stabilizes vessels in water baths or on the benchtop.

Open ring; flexible enough to be pulled apart to accommodate a wider vessel.

Coated with green Vikem® vinyl to protect glassware.

Available in four diameter/weight combinations.



Part No.	Approx. Weight	O.d.	I.d.	Fits Glassware	Qty/pk	List
M440-383	227gm	74mm	48mm	125 - 500mL Flasks	1/pk	\$49.35
M440-384	454gm	86mm	56mm	250 - 1000mL Flasks	1/pk	\$55.88
M440-385	681gm	97mm	61mm	500 - 2000mL Flasks	1/pk	\$64.28
M440-386	908gm	114mm	76mm	1000 - 4000mL Flasks	1/pk	\$68.18

Poxygrid Lead Flask Ring Holder

Convenient storage for lead rings.

Wire formed, epoxy coated holder keeps lead ring weights organized and handy.

Small footprint; circular base is only 19cm (7½”) in diameter.

Rings having an inside diameter of 17.8mm (0.7”) or larger stack neatly on a tapered center post (17.1cm (6¾”) high).

Steam autoclavable at 121°C (250°F).



Part No.	Description	Qty	List
M440-382	Lead Flask Ring Holder	1/ea	\$33.08



FUNNELS

Buchner

SIBATA Buchner Funnels, with Fritted Disc Filters

Meet ISO 4793 Specifications. Used for applications when filter paper and membranes cannot withstand the chemical attack of the filtrate. Funnels are constructed with heavy-walled stems; top rims are beaded for extra strength.



Part No.	Capacity	Type	Porosity	Pore Size	Disc Diam.	Qty	List
F552-074	140mL	17G	EC	160 - 250µm	65mm	1/pk	\$66.60
F552-070	60mL	11G	C	40 - 100µm	39mm	3/pk	\$105.07
F552-072	60mL	11G	M	10 - 16µm	39mm	3/pk	\$105.07
F552-069	60mL	11G	EC	160 - 250µm	39mm	3/pk	\$105.07
F552-071	60mL	11G	PC	16 - 40µm	39mm	3/pk	\$105.07
F552-073	60mL	11G	F	4 - 5.5µm	39mm	3/pk	\$232.73
F552-075	140mL	17G	PC	16 - 40µm	65mm	1/pk	\$66.60
F552-077	140mL	17G	M	10 - 16µm	65mm	1/pk	\$85.56
F552-076	140mL	17G	PC	16 - 40µm	65mm	1/pk	\$66.60
F552-078	140mL	17G	F	4 - 5.5µm	65mm	1/pk	\$150.38

Buchner Funnel with Fritted Disc, Borosilicate Glass

Manufactured from thick walled borosilicate glass, funnels include a beaded rim and a fritted disc with coarse, medium or fine porosity.

Height above Disc: 45mm Stem OD: 8mm

Capacity: 15mL Disc Dia.: 20mm

Part No.	Stem O.D (mm)	Porosity	Qty	List
B725-072	8	Coarse	2/pk	\$60.25
B725-074	8	Medium	2/pk	\$60.25
B725-073	8	Fine	2/pk	\$62.70

Height above Disc: 45mm Stem OD: 8mm

Capacity: 30mL Disc Dia.: 30mm

Part No.	Stem O.D (mm)	Porosity	Qty	List
B725-075	8	Coarse	2/pk	\$63.80
B725-077	8	Medium	2/pk	\$63.80
B725-076	8	Fine	2/pk	\$63.80

Height above Disc: 50mm Stem OD: 10mm

Capacity: 60mL Disc Dia.: 40mm

Part No.	Stem O.D (mm)	Porosity	Qty	List
B725-078	10	Coarse	2/pk	\$163.20
B725-080	10	Medium	2/pk	\$163.20
B725-079	10	Fine	2/pk	\$143.00



VEE GEE Buchner Funnels

Manufactured with the highest standards and are glazed inside and out with the exception of the rim.

Part No.	Description	Qty	List
F552-085	70mL	1/pk	\$30.33
F552-086	120mL	1/pk	\$36.00
F552-087	240mL	1/pk	\$48.00
F552-088	400mL	1/pk	\$60.00
F552-089	600mL	1/pk	\$82.67



Check Out Pages 463-470 for Plastic Funnel Options

Buchner Funnel with KIMFLOW® Fritted Disc

This Buchner KIMAX® funnel is used wherever filter paper and membranes cannot withstand the chemical attack of the filtrate.

Funnels are constructed with heavy-walled stems and top rims are beaded for extra strength. With a marking spot and KIMFLOW® fritted disc. Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Height above Disc: 30mm Length of Stem: 30mm
Capacity: 2mL Disc Dia.: 10mm Stem OD: 7mm Stem ID: 3mm

Part No.	Porosity (microns)	Qty/pk	List/pk	Qty/cs	List/cs
F264-248	4-5.5	n/a	n/a	1/cs	\$64.72
F264-247	10-15	1/pk	\$76.00	9/cs	\$461.28
F264-246	40-60	1/pk	\$76.00	9/cs	\$461.28

Height above Disc: 45mm Length of Stem: 75mm
Capacity: 15mL Disc Dia.: 20mm Stem OD: 8mm Stem ID: 4mm

Part No.	Porosity (microns)	Qty/pk	List/pk	Qty/cs	List/cs
F264-240	4-5.5	n/a	n/a	1/cs	\$63.58
F264-239	10-15	1/pk	\$70.77	6/cs	\$286.37
F264-238	40-60	1/pk	\$70.77	6/cs	\$286.37

Height above Disc: 45mm Length of Stem: 75mm
Capacity: 30mL Disc Dia.: 30mm Stem OD: 8mm Stem ID: 4mm

Part No.	Porosity (microns)	Qty/pk	List/pk	Qty/cs	List/cs
F264-253	4-5.5	n/a	n/a	1/cs	\$66.58
F264-252	10-15	1/pk	\$80.07	6/cs	\$324.00
F264-251	40-60	1/pk	\$79.77	6/cs	\$322.77

Height above Disc: 50mm Length of Stem: 75mm
Capacity: 60mL Disc Dia.: 40mm Stem OD: 10mm Stem ID: 6mm

Part No.	Porosity (microns)	Qty/pk	List/pk	Qty/cs	List/cs
F264-262	4-5.5	n/a	n/a	1/cs	\$73.54
F264-261	10-15	1/pk	\$99.29	6/cs	\$401.79
F264-260	40-60	1/pk	\$88.39	6/cs	\$357.67

Height above Disc: 50mm Length of Stem: 75mm
Capacity: 150mL Disc Dia.: 60mm Stem OD: 15mm Stem ID: 10mm

Part No.	Porosity (microns)	Qty/pk	List/pk	Qty/cs	List/cs
F264-243	4-5.5	n/a	n/a	1/cs	\$132.00
F264-242	10-15	1/pk	\$156.54	4/cs	\$422.28
F264-241	40-60	1/pk	\$158.05	4/cs	\$426.37

Height above Disc: 75mm Length of Stem: 75mm
Capacity: 350mL Disc Dia.: 80mm Stem OD: 20mm Stem ID: 14mm

Part No.	Porosity (microns)	Qty/pk	List/pk	Qty/cs	List/cs
F264-256	4-5.5	n/a	n/a	1/cs	\$182.84
F264-255	10-15	1/pk	\$218.84	3/cs	\$442.77
F264-254	40-60	1/pk	\$218.84	3/cs	\$442.77

Height above Disc: 90mm Length of Stem: 100mm
Capacity: 600mL Disc Dia.: 90mm Stem OD: 20mm Stem ID: 14mm

Part No.	Porosity (microns)	Qty/pk	List/pk	Qty/cs	List/cs
F264-259	4-5.5	n/a	n/a	1/cs	\$227.95
F264-258	10-15	1/pk	\$262.33	3/cs	\$530.77
F264-257	40-60	1/pk	\$263.48	3/cs	\$533.09

Height above Disc: 160mm Length of Stem: 110mm
Capacity: 2000mL Disc Dia.: 125mm Stem OD: 26mm Stem ID: 18mm

Part No.	Porosity (microns)	Qty	List
F264-245	10-15	1/cs	\$501.88
F264-244	40-60	1/cs	\$446.09

Height above Disc: 170mm Length of Stem: 110mm
Capacity: 3000mL Disc Dia.: 150mm Stem OD: 26mm Stem ID: 18mm

Part No.	Porosity (microns)	Qty	List
F264-250	10-15	1/cs	\$601.37
F264-249	40-60	1/cs	\$601.37



Buchner Funnels, Porcelain

Porcelain Buchner funnels include fixed perforated plates. Funnels are glazed on inner and outer surfaces except for the rims.

Capacity is approximate.



Part No.	Capacity	Top Dia. x Height	Stem Length	For Filter Paper Size	Qty	List
B724-546	3mL	20 x 66mm	35mm	1.3cm	1/pk	\$24.64
B724-545	35mL	50 x 91mm	45mm	4cm	1/pk	\$42.89
B724-544	100mL	65 x 103mm	50mm	5.5cm	1/pk	\$43.58
B724-542	200mL	86 x 140mm	60mm	7cm	1/pk	\$19.56
B724-540	350mL	105 x 162mm	78mm	9cm	1/pk	\$33.95
B724-538	600mL	127 x 194mm	95mm	11cm	1/pk	\$34.17
B724-537	800mL	143 x 200mm	100mm	12.5cm	1/pk	\$96.75
B724-543	1150mL	172 x 220mm	105mm	15cm	1/pk	\$181.65
B724-541	2000mL	210 x 272mm	120mm	18cm	1/pk	\$266.70
B724-539	4800mL	270 x 352mm	150mm	24cm	1/pk	\$477.63

Buchner Funnels, Porcelain, Economy

Good quality glazed porcelain. Acid and alkali resistant. Sold as eaches.

Capacity is approximate.



Part No.	Capacity	Top Dia. x Height	For Filter Paper Size	Qty	List
B725-443	50mL	50 x 90mm	4cm	1/pk	\$13.56
B725-444	120mL	70 x 125mm	5.5cm	1/pk	\$8.65
B725-445	200mL	90 x 155mm	7cm	1/pk	\$11.55
B725-446	400mL	110 x 165mm	9cm	1/pk	\$28.24
B725-447	650mL	150 x 220mm	12.5cm	1/pk	\$62.05
B725-448	900mL	200 x 250mm	18cm	1/pk	\$89.46
B725-449	1200mL	250 x 280mm	24cm	1/pk	\$172.20

Hirsch

Fritted Hirsch Filter Funnels

Conical funnel shape directs filtrate through a reduced area frit to concentrate crystal residue for rewashing.

Accessory for Microscale MICROFLEX® threaded kits.

Available in three porosities: Fine (4-5.5 micron), Medium (10-15 micron) and Coarse (40-60 micron).

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Disc Diam.: 10mm Overall Height: 180mm

Part No.	Porosity (microns)	Stem Length	Stem OD	OD of Funnel Top	Qty	List
G539-640	40-60	145mm	6mm	40mm	1/pk	\$43.02

Disc Diam.: 20mm Overall Height: 115mm

Part No.	Porosity (microns)	Stem Length	Stem OD	OD of Funnel Top	Qty	List
G539-642	4-5.5	70mm	8mm	50mm	1/pk	\$95.12
G539-643	10-15	70mm	8mm	50mm	1/pk	\$93.65
G539-641	40-60	70mm	8mm	50mm	1/pk	\$90.02

Disc Diam.: 30mm Overall Height: 145mm

Part No.	Porosity (microns)	Stem Length	Stem OD	OD of Funnel Top	Qty	List
G539-645	4-5.5	75mm	8mm	75mm	1/pk	\$131.93
G539-646	10-15	75mm	8mm	75mm	1/pk	\$131.93
G539-644	40-60	75mm	8mm	75mm	1/pk	\$131.93

Hirsch Funnels

Part No.	Description	Qty	List
G538-584	Hirsch Funnel with Disc	10/cs	\$42.63
G538-585	Hirsch Funnel, 14/20 Standard Taper Joints	5/cs	\$23.23



Hirsch Funnels, Porcelain

Porcelain funnels feature fixed perforated plates. Glazed on inner and outer surfaces except for the rim. Capacity is approximate.



Part No.	Capacity	Top Dia. x Height	For Filter Paper Dia.	Qty	List
B724-484	10mL	30 x 50mm	10mm	1/pk	\$13.95
B724-483	12mL	40 x 70mm	15mm	1/pk	\$16.50
B724-482	25mL	50 x 75mm	30mm	1/pk	\$18.80
B724-481	50mL	75 x 130mm	47mm	1/pk	\$19.90
B724-480	140mL	100 x 175mm	55mm	1/pk	\$32.90

Long Stem

58° 6" Long Stem Funnels

The exclusive KIMAX® 58° funnel promotes faster, more effective filtering because the cone is suspended by its uppermost edge, leaving most of the conical area for filtration.

KIMAX® funnel constructed with heavy uniform walls and strong, molded rims and fire-polished stems to provide a long service life.

Funnels have a high resistance to chemical attack and mechanical and thermal shock.

The 58° funnel angle is a Kimble exclusive, formed to an exact angle for rapid filtration.

A piece of filter paper, when folded to form the filtering cone, forms a precise 60° angle. If the funnel is also 60°, as are the vast majority, then the only effective filtering area is down near the tip.

Designed from ASTM Specification E1095, Type I, Class B requirements.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Length of Stem: 150mm

Stem OD: 8mm

Part No.	Cone Volume	Fits Paper of Dia.	ID at Funnel Top	Qty/pk	List/pk	Qty/cs	List/cs
F218-000	36mL	90mm	55mm	12/pk	\$266.26	48/cs	\$718.28
F218-001	60mL	110mm	65mm	12/pk	\$230.93	48/cs	\$622.98
F218-002	90mL	125mm	75mm	12/pk	\$253.35	48/cs	\$683.44

Length of Stem: 150mm

Stem OD: 9mm

Part No.	Cone Volume	Fits Paper of Dia.	ID at Funnel Top	Qty/pk	List/pk	Qty/cs	List/cs
F218-003	225mL	185mm	100mm	6/pk	\$152.46	24/cs	\$411.28

60° 6" Wide Top Long Stem Funnels

These KIMAX® funnels are constructed with heavy uniform walls and strong, fire-polished rims and stems to provide a long service life.

Funnels have a high resistance to chemical attack and to mechanical and thermal shock.

Designed from ASTM Specification E1095, Type I, Class B requirements.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Cone Volume	Diameter	Length of Stem	Stem OD	Qty	List
F218-012	600mL	150mm	150mm	15mm	1/cs	\$121.12
F218-013	1500mL	200mm	150mm	19mm	1/cs	\$198.77
F218-014	2900mL	250mm	150mm	25mm	1/cs	\$267.54

Long-Stem Thistle-Top Funnels

12-inch long-stem thistle-top funnels.

KIMAX® tube with a sturdy, extra long stem.

Shape of the funnel is cylindrical (similar to the "thistle top" style).

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Length of Stem	Stem OD	Qty	List
G536-475	300mm	6.5mm	1/cs	\$35.02
G536-476	400mm	6.5mm	1/cs	\$34.86



Long Stem Glass Funnel

These borosilicate glass funnels include: 60° cone angle, beaded tops and long stems.



Part No.	Top Diam. x Stem L x Overall L	Qty	List
B724-564	50mm x 150mm x 195mm	6/pk	\$45.14
B724-563	65mm x 150mm x 205mm	6/pk	\$54.27
B724-562	75mm x 150mm x 215mm	6/pk	\$55.97
B724-565	100mm x 150mm x 235mm	6/pk	\$69.88

Short Stem

Short Stem Addition Funnels

This KIMAX® funnel is constructed with heavy uniform walls, molded rims and fire-polished stems to give a long service life.

Funnels have a high resistance to chemical attack and mechanical and thermal shock.

A piece of filter paper, when folded to form the filtering cone, forms a precise 60° angle. If the funnel is also 60°, as are the vast majority, then the only effective filtering area is down near the tip.

The exclusive KIMAX® 58° funnel promotes faster, more effective filtering because the cone is suspended by its uppermost edge, leaving most of the conical area for filtration.

Designed from ASTM Specification E1095, Type I, Class A requirements.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Length of Stem: 40mm Stem OD: 6mm

Part No.	Cone Vol.	Fits Paper of Dia.	ID at Funnel Top	Qty/pk	List/pk	Qty/cs	List/cs
F218-004	3mL	42.5mm	25mm	6/pk	\$78.48	24/cs	\$211.72

Length of Stem: 50mm Stem OD: 6.5mm

Part No.	Cone Vol.	Fits Paper of Dia.	ID at Funnel Top	Qty/pk	List/pk	Qty/cs	List/cs
F218-005	8mL	55mm	35mm	6/pk	\$111.85	24/cs	\$301.72
F218-006	19mL	70mm	45mm	6/pk	\$108.02	24/cs	\$291.40

Length of Stem: 63mm Stem OD: 8mm

Part No.	Cone Vol.	Fits Paper of Dia.	ID at Funnel Top	Qty/pk	List/pk	Qty/cs	List/cs
F218-007	36mL	90mm	55mm	12/pk	\$237.67	48/cs	\$641.14
F218-008	60mL	110mm	65mm	12/pk	\$265.17	48/cs	\$715.33
F218-009	90mL	125mm	75mm	12/pk	\$286.48	48/cs	\$772.84

Length of Stem: 97mm Stem OD: 9mm

Part No.	Cone Vol.	Fits Paper of Dia.	ID at Funnel Top	Qty/pk	List/pk	Qty/cs	List/cs
F218-010	150mL	150mm	90mm	6/pk	\$145.51	24/cs	\$392.54
F218-011	225mL	185mm	100mm	6/pk	\$185.27	24/cs	\$499.79

Powder Addition Funnels - Outer Baffled, Short Stem

The exclusive KIMAX® 58° funnel promotes faster, more effective filtering because the cone is suspended by its uppermost edge.

A piece of filter paper, when folded to form the filtering cone, makes a precise 60° angle. If the funnel is also 60°, as are the vast majority, then the only effective filtering area is down near the tip.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class

A requirements.



Length of Stem: 35mm Stem OD: 18mm

Part No.	Cone Vol.	Fits Paper of Diameter	ID at Funnel Top	Qty	List
G537-825	150mL	150mm	90mm	1/cs	\$68.77
G537-826	225mL	185mm	100mm	1/cs	\$80.56

Glove options can be found on pages 22-26.

Separatory Funnel

Separatory Funnel with Short Stem

Designed for rapid extractions of environmental samples.

Funnel top has a short drip tip and a Standard Taper 34/28 opening for more convenient filling.

PTFE stopcock plug is G538-841 and has a 6mm bore for rapid transfer.

Stopper is PTFE.

Thick walls help resist breakage in the cleaning and drying cycle.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Stem OD: 1/2"		Standard Taper Joints Top: 34/28		Plug Type: PTFE	
Part No.	Capacity	Overall Height	Overall OD	Qty	List
G537-911	500mL	320mm	100mm	1/ea	\$288.37
G537-912	1000mL	370mm	130mm	1/ea	\$362.28
G537-913	2000mL	420mm	160mm	1/ea	\$535.58

Funnels, Separatory

These separatory funnels feature smooth tooled tips, large, white block letters and large marking squares. Supplied with PTFE stopcocks to eliminate freezing and lubricant contamination and to provide a precision fit within the barrel. The stopcock bores, body openings and stems are carefully aligned for even liquid flow with fast cut-off. Made of borosilicate tubing with a low coefficient of expansion.

Total length is approximate; Stopper # is for PET stopper; Plug size is for stockcock.



Approx. O.D. x Stem Length: 10 x 65mm			Stopcock Plug Size: 2				
Part No.	Capacity	Stopper #	Total Length	Qty/pk	List/pk	Qty/cs	List/cs
F552-079	250mL	22	345mm	1/ea	\$43.04	24/cs	\$1032.96

Approx. O.D. x Stem Length: 10 x 65mm			Stopcock Plug Size: 4			
Part No.	Capacity	Stopper #	Total Length	Qty	List	
F552-080	500mL	27	392mm	1/ea	\$49.87	

Approx. O.D. x Stem Length: 12 x 70mm			Stopcock Plug Size: 4				
Part No.	Capacity	Stopper #	Total Length	Qty/pk	List/pk	Qty/cs	List/cs
F552-081	1000mL	27	400mm	1/ea	\$63.44	12/cs	\$761.28

Approx. O.D. x Stem Length: 12 x 75mm			Stopcock Plug Size: 6			
Part No.	Capacity	Stopper #	Total Length	Qty	List	
F552-082	2000mL	38	490mm	1/ea	\$98.20	

Squibb Separatory Funnels with Glass Stopcock

KIMAX® funnel is supplied with a Standard Taper ground glass stopcock and stopper

Lower stems have an ID large enough that a column of liquid will "break" with the stopcock closed, thereby giving a more complete separation and eliminating the necessity of emptying the funnel.

Replacement ground glass stoppers are available.

Designed from ASTM Specification E1096, Type IV requirements.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Stem Length: 60mm						
Part No.	Capacity	Stopcock Bore Size	Qty/pk	List/pk	Qty/cs	List/cs
F218-028	60mL	2mm	2/pk	\$335.37	6/cs	\$678.54
F218-029	125mL	2mm	2/pk	\$363.10	6/cs	\$734.65
F218-030	250mL	4mm	2/pk	\$428.28	4/cs	\$577.67
F218-031	500mL	4mm	1/pk	\$273.81	4/cs	\$738.65
F218-032	1000mL	4mm	1/pk	\$381.68	2/cs	\$514.81

Plastic Separatory Funnels are on page 470.

Squibb Separatory Funnel with PTFE Stopcock & Plastic Stopper

KIMAX® funnel is supplied with a PTFE stopcock plug and with a closed-bottom, linear high-density polyethylene stopper to fit in the Standard Taper ground neck.

Lower stems have an ID large enough that a column of liquid will “break” with the stopcock closed, thereby giving a more complete separation and eliminating the necessity of emptying the funnel.

Replacement PTFE stopcock plug and stoppers are available.

Designed from ASTM Specification E1096, Type IV requirements.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Stem Length: 60mm

Part No.	Capacity	Stopcock Bore Size	Stopper Size	Qty/pk	List/pk	Qty/cs	List/cs
F218-047	125mL	2mm	22	2/pk	\$389.28	4/cs	\$525.07
F218-048	250mL	4mm	22	2/pk	\$465.33	4/cs	\$627.65
F218-049	500mL	4mm	27	1/pk	\$266.33	4/cs	\$718.47
F218-050	1000mL	4mm	27	1/pk	\$370.18	2/cs	\$499.30
F218-051	2000mL	6mm	38	1/pk	\$534.71	2/cs	\$721.23

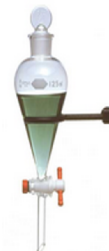
Squibb Separatory Funnels with PTFE Stopcock

KIMAX® funnel is supplied with a Standard Taper ground glass stopper and a PTFE stopcock.

Lower stems have an ID large enough that a column of liquid will “break” with the stopcock closed, thereby giving a more complete separation and eliminating the necessity of emptying the funnel.

Designed from ASTM Specification E1096, Type IV requirements.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Stem Length: 60mm

Part No.	Capacity	Stopcock Bore Size	Qty/pk	List/pk	Qty/cs	List/cs
F218-033	30mL	2mm	2/pk	\$323.76	4/cs	\$436.70
F218-034	60mL	2mm	2/pk	\$412.88	4/cs	\$556.91
F218-035	125mL	2mm	2/pk	\$398.83	4/cs	\$537.95
F218-036	250mL	4mm	2/pk	\$472.95	4/cs	\$637.93
F218-037	500mL	4mm	1/pk	\$271.60	4/cs	\$732.70
F218-038	1000mL	4mm	1/pk	\$374.16	2/cs	\$505.35
F218-039	2000mL	6mm	1/pk	\$608.66	2/cs	\$820.98

Globe KIMAX® Separatory Funnels with Glass Stopcock

KIMAX® funnel is supplied with a Standard Taper ground glass stopper and a ground glass stopcock.

Gradually tapering shoulders and a wide neck facilitate cleaning.

Sharp separations are provided for by a narrow bore in the body just above the stopcock.

Replacement stoppers and stopcock plugs are available.

Designed from ASTM Specification E1096, Type II requirements.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Capacity	Stem Length	Stopcock	Stopper	Qty	List
F218-025	250mL	175mm	2	22	1/cs	\$180.56

Separatory Funnels, Borosilicate Glass

These pear-shaped borosilicate glass funnels include a PTFE stopcock and a plastic stopper. Feature a marking spot and large white block letters for easy identification of capacity, as per ASTM E1096. PTFE stopcocks are compliant with ASTM standard E675.

Part No.	Capacity	Stopper Size	Qty	List
B724-390	125mL	22	2/pk	\$100.52
B724-388	250mL	22	2/pk	\$101.75
B724-386	500mL	27	2/pk	\$116.07
B724-391	1000mL	27	1/pk	\$64.70
B724-389	2000mL	38	1/pk	\$118.83



Funnel Accessories

Filter Adapter Set of 7 , Neoprene

Set of seven neoprene adapter cones designed to fit Buchner and fritted glass funnels, porcelain filters without headpieces and for reverse flow cleaning of filter crucibles. Adapters can be used to support funnels, Gooch crucibles, filter tubes and other apparatus in filtration assemblies. These adapters are functional even if not tightly fitted around the funnel stem. Can be used individually or nested with adjacent sizes. Provide an excellent alternative to boring special size holes in rubber stoppers. Autoclavable.



Part No.	Description	Qty	List
C221-888	Set of 7	1/pk	\$17.06

Funnel Holder, Single, PP

This corrosion-resistant polypropylene holder can be used with 3" to 6" diameter funnels and includes an extra plate to accommodate 1" to 3" diameter funnels. Two tapered wedges are provided to ensure firm grip on rods measuring 1/2" or 3/8" diameter.



Part No.	Description	Qty	List
B724-737	Funnel Holder, Single, PP	12/pk	\$108.25

Funnel Holder, Double, PP

Suspend two funnels simultaneously using this polypropylene holder. These corrosion-resistant holders can be used with 3" to 6" diameter funnels and include an extra plate to accommodate 1" to 3" diameter funnels. Two tapered wedges are provided to ensure firm grip on rods measuring 1/2" or 3/8" diameter.



Part No.	Description	Qty	List
B724-740	Funnel Holder, Double, PP	6/pk	\$75.00

Separatory Funnel Holder, PP

This non-corrosive separatory funnel holder, molded in polypropylene, has a front opening which provides clear view of the solution and allows unobstructed placement of separatory funnels. Two tapered wedges are provided to ensure firm grip on rods measuring 1/2" or 3/8" diameter.



Part No.	Description	Qty	List
B724-738	Separatory Funnel Holder, PP	12/cs	\$58.47

Rotary Separatory Funnel Rack

Fully Adjustable Support Disc.

This rotary separatory funnel rack consists of a rectangular base, screw-in column and a support disc held in place by a screw clamp.

Support disc is fully adjustable for different heights up to 21".

Open front type support holes for easy removal and placement of separatory funnels.

Includes 18 insert clips to accommodate different sized funnels.

Shipped unassembled.



Part No.	Description	For Funnels	Height X Diameter	Qty	List
R100-301	6 Place Funnel Rack	500/1000cc	53 x 35cm (21 x 13 3/4")	1/pk	\$300.17
R100-303	12 Replacement Insert Clips			12/pk	\$39.00

Also see our support stands on page 381
&
clamp options on pages 378-380.



MORTAR & PESTLES

Mortar & Pestle Set

Mortar and pestle are made of clear, heavy, flint glass.
Mortar has a heavy molded base and lip for pouring.



Part No.	Volume x Height x ID	Qty	List
G445-095	25mL x 60mm x 10mm	1/pk	\$64.67
G445-098	57mL x 68mm x 80mm	1/pk	\$59.67
G445-103	114mL x 93mm x 100mm	1/pk	\$62.67
G445-108	227mL x 98mm x 110mm	1/pk	\$74.33
G445-118	455mL x 120mm x 135mm	1/pk	\$101.00
G445-125	909mL x 143mm x 156mm	1/pk	\$146.33

Porcelain Mortar & Pestle Sets

Mortars have a pouring spout, are glazed outside only, with porcelain pestles glazed to grinding surface.



Part No.	Capacity x Mortar ID x Pestle Length	Qty	List
B725-064	80mL x 60mm x 95mm	1/pk	\$8.49
B725-065	125mL x 75mm x 115mm	1/pk	\$10.13
B725-066	300mL x 100mm x 135mm	1/pk	\$17.64
B725-067	500mL x 125mm x 165mm	1/pk	\$23.12

Agate Mortars & Pestles Series 400

Octagonally shaped, thick walled agate mortar with pestle.
Both have highly polished grinding surfaces.



Part No.	Size O.D. a	Dimension d	Dimension h	Dimension t	Qty	List
M900-344	25mm	23°	12mm	6mm	1/ea	\$250.33
M900-345	35mm	33°	18mm	8mm	1/ea	\$273.67
M900-346	40mm	37°	19mm	9mm	1/ea	\$299.00
M900-347	50mm	44°	23mm	12mm	1/ea	\$313.00
M900-348	65mm	55°	26mm	15mm	1/ea	\$400.33
M900-349	75mm	64°	32mm	18mm	1/ea	\$562.00
M900-350	95mm	80°	40mm	24mm	1/ea	\$982.00
M900-351	100mm	82°	41mm	25mm	1/ea	\$1088.67
M900-352	125mm	104°	51mm	31mm	1/ea	\$2008.67
M900-353	150mm	124°	65mm	39mm	1/ea	\$4207.33

Agate Pestles Only for Mortar Series 400

Part No.	Length	Qty	List
M900-354	25mm	1/ea	\$58.00
M900-355	35mm	1/ea	\$73.67
M900-356	40mm	1/ea	\$77.00
M900-357	50mm	1/ea	\$89.00
M900-358	65mm	1/ea	\$115.67
M900-359	75mm	1/ea	\$179.67
M900-360	95mm	1/ea	\$321.33
M900-361	100mm	1/ea	\$359.00
M900-362	125mm	1/ea	\$609.67
M900-363	150mm	1/ea	\$977.00



Mortar and Pestle Sets, Deep Form, Porcelain

Deep form mortars with lips are glazed on the outside (except for the bottom) and unglazed inside.
Oversized pestles are glazed to grinding surface.



Part No.	Capacity	Mortar Height	Pestle Length	Qty	List
B724-479	50mL	47mm	95mm	1/pk	\$9.83
B724-478	70mL	52mm	115mm	1/pk	\$44.43
B724-477	150mL	70mm	135mm	1/pk	\$14.43
B724-475	275mL	70mm	160mm	1/pk	\$36.80
B724-474	400mL	80mm	185mm	1/pk	\$26.80
B724-473	750mL	110mm	200mm	1/pk	\$40.83
B724-476	1900mL	130mm	222mm	1/pk	\$83.95

VEE GEE Mortar & Pestles

Manufactured with the highest standards and are glazed outside and on inside lip. No glaze on bottom or inside grinding surface of mortar. Pestle handle is glazed up to the grinding surface.



Mortars

Part No.	Capacity	Approx. O.D.	Qty	List
C900-086	160mL	90mm	1/pk	\$22.00
C900-088	400mL	125mm	1/pk	\$46.67
C900-090	650mL	150mm	1/pk	\$72.33
C900-084	70mL	63mm	1/pk	\$15.33

Pestle

Part No.	Length	Qty	List
C900-085	115mm	1/pk	\$8.00
C900-087	135mm	1/pk	\$9.33
C900-089	175mm	1/pk	\$15.33
C900-091	210mm	1/pk	\$23.67

TISSUE GRINDERS

Dounce

Tissue Grinder, Dounce

This tissue grinder is designed to retain a high percentage of cell nuclei and mitochondria in soft tissues or from cell cultures. In operation, the pestle ball is encircled in liquid, which avoids heat buildup by reducing friction. This grinder is ideal for enzyme studies. The initial grinding is performed using the "loose" pestle. The grinding process is completed using the "tight" pestle. This grinder is used by moving the pestle up and down and works best with cell suspensions or very soft tissue. The mortar has a large reservoir and pouring lip and is supplied with a "loose" pestle and a "tight" pestle. Two complete sets per case. Tight Pestle "A" Specification: 0.0010-0.0030 in (0.025 - 0.076mm), Loose Pestle "B" Specification: 0.0035-0.0055 in (0.089 - 0.14mm).



Ideal for soft tissue.

Provided with loose and tight pestle.

Wheaton 33 low extractable borosilicate glass.

Autoclavable.

Part No.	Description	Qty	List
G545-788	1mL	1/ea	\$218.58
G545-789	7mL	1/ea	\$240.73
G545-790	15mL	1/ea	\$276.60
G545-791	40mL	1/ea	\$344.41

Dounce All-Glass Tissue Grinders

Designed primarily for cellular work where the nucleus remains intact after homogenization.

All-glass construction.

Two pestles are supplied with each complete unit.

Large clearance pestle is used for the initial sample reduction.

Small clearance pestle is used to form the final homogenate.

Replacement components are available and completely interchangeable.

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Pestle A : Large Clearance

Pestle B: Small Clearance

Part No.	Pestle A	Pestle B	Tube Length	Working Capacity	Qty	List
G538-988	0.0025-0.0055"	0.0005-0.0025"	37mm	0.5mL	1/ea	\$164.56
G538-989	0.0025-0.0055"	0.0005-0.0025"	88mm	1mL	1/ea	\$164.56
G538-990	0.0030-0.0050"	0.0005-0.0025"	60mm	2mL	1/ea	\$188.67
G538-991	0.0028-0.0047"	0.0008-0.0022"	125mm	7mL	1/ea	\$166.88
G538-992	0.0035-0.0065"	0.0010-0.0030"	157mm	15mL	1/ea	\$187.33
G538-993	0.0030-0.0060"	0.0010-0.0030"	215mm	40mL	1/ea	\$216.56
G538-994	0.0020-0.0100"	0.0005-0.0055"	232mm	100mL	1/ea	\$465.86



Potter-ELV, Ctd

Tissue Grinder, Potter-ELV, Ctd

Wheaton Safe-Grind plastic coated tissue grinders afford an added measure of safety over uncoated glass tissue grinders. The heavy plastisol coating protects the mortar from becoming scratched or checked and assures you of a sure grip. More importantly, the plastic coating creates a greater safety factor in case the mortar cracks or breaks during power homogenization. The transparent coating allows an unobstructed view of the homogenate during grinding. Wheaton Safe-Grind tissue grinders are fully autoclavable. Grinding chamber clearance is .004" to .006" (0.1 - 0.15mm). Diameter of the stainless steel shaft is 0.25" (6.3mm).

Exterior plastic coated glass mortar provide greater safety.

Ideal for tissue homogenates.

Mortar made from Wheaton 33 low extractable borosilicate glass.

PTFE pestle with stainless steel shaft can be used with power homogenization.

Autoclavable.



Part No.	Description	Qty	List
G545-812	2mL	1/ea	\$210.94
G545-814	5mL	1/ea	\$213.47
G545-816	10mL	1/ea	\$216.69
G545-818	15mL	1/ea	\$247.68
G545-820	30mL	1/ea	\$285.94
G545-822	55mL	1/ea	\$338.19

Potter Elvehjem with PTFE Pestle & Glass Tube

Set contains a PTFE pestle and an unground tube.

Sizes 21 to 24 have radial serrations on the lower portion of the pestle to deliver the homogenate into the cylindrical portion of the tube.

Replacement components are available and completely interchangeable.

Clearance between pestles and tubes is 0.004" to 0.006".

Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.

Capacity listed is working capacity.

Overall OD is for pestle.



Pestle Shaft OD: 3mm

Part No.	Size	Capacity	Overall OD	Tube Length	Tube Reservoir OD	Qty	List
G539-125	18	0.5mL	130mm	80mm	12mm	1/cs	\$161.33

Pestle Shaft OD: 5mm

Part No.	Size	Capacity	Overall OD	Tube Length	Tube Reservoir OD	Qty	List
G539-126	19	1mL	154mm	95mm	12mm	1/cs	\$133.54
G539-127	20	3mL	154mm	115mm	12mm	1/cs	\$142.79

Pestle Shaft OD: 6mm

Part No.	Size	Capacity	Overall OD	Tube Length	Tube Reservoir OD	Qty	List
G539-128	21	5mL	215mm	140mm	15mm	1/cs	\$138.21
G539-129	22	8mL	212mm	150mm	19mm	1/cs	\$133.54
G539-130	23	17mL	266mm	175mm	25mm	1/cs	\$158.67
G539-131	24	45mL	269mm	220mm	32mm	1/cs	\$175.88

Sterile Closed System Tissue Grinders

Closed System 1 sterile tissue grinders are easy to use and designed for your safety.

Tissues are ground within a sealed container to minimize the risk of personal contact - exposure to sample aerosols is eliminated.

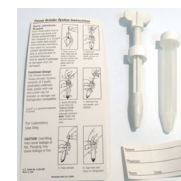
Narrow pestles eliminate the potential of sample overflow common with other types of grinders.

The molded-in abrasive surface on the pestle tip leaves no sediment to obstruct sample examination.

Each grinder comes with a fully assembled pestle, a conical sample tube with solid top cap, an adhesive identification label and an instruction card.

All are gamma-sterilized in easy-open Tyvek® packs.

Tubes are made of PP, pestles are 30% glass-filled PP and caps are HDPE.



Part No.	Capacity	Qty	List
G538-635	15mL	10/cs	\$164.42
G538-636	50mL	10/cs	\$164.42

Tenbroeck

Tenbroeck Tissue Grinders

Have a hollow handle that allows packing with ice, making them suitable for tissue such as liver, intestines and heart. Ideal for grinding liver, intestine and heart tissue. Made from Wheaton 33 low extractable borosilicate glass. Hollow pestle can be packed with ice. Pour lip on mortar. Autoclavable



Part No.	Description	Qty	List
G545-781.....	1mL.....	1/ea.....	\$157.02
G545-782.....	2mL.....	1/ea.....	\$197.71
G545-783.....	7mL.....	1/ea.....	\$204.63
G545-784.....	15mL.....	1/ea.....	\$221.83
G545-785.....	40mL.....	1/ea.....	\$286.68

Tenbroeck Glass Tissue Grinders

All-glass construction. Popular style which affords the choice of hand or motor operation. Pestle is tooled for an appropriately sized single-hole rubber stopper (not supplied). These grinders can be motor-driven at slow speeds by inserting one end of a short metal rod in the stopper and inserting the other end into the motor chuck. Replacement components are available and completely interchangeable. Clearance between pestles and tubes is 0.004" to 0.006". Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Capacity	Stopper	Pestle Length	Tube Overall x Reservoir OD	Qty	List
G538-976.....	2mL.....	n/a.....	160mm.....	100 x 30mm.....	1/ea.....	\$111.14
G538-977.....	7mL.....	00.....	195mm.....	125 x 30mm.....	1/ea.....	\$124.41
G538-978.....	15mL.....	1.....	250mm.....	157 x 38mm.....	1/ea.....	\$138.30
G538-979.....	40mL.....	3.....	315mm.....	215 x 55mm.....	1/ea.....	\$189.72



Pestles for Tenbroeck Tissue Grinder

Part No.	Size	Qty	List
G538-980.....	2mL.....	1/ea.....	\$61.46
G538-981.....	7mL.....	1/ea.....	\$68.11
G538-982.....	15mL.....	1/ea.....	\$74.76
G538-983.....	40mL.....	1/ea.....	\$95.23

Looking for a plastic tissue grinder instead?



BMP Tissue Grinders are engineered for safety and ease of use. The patented closed tissue grinder system design provides the ability to grind the specimen in a sealed container helping to prevent any risk of contact with the sample. The narrow pestle eliminates the problem of sample overflow common with other tissue grinders. The molded-in abrasive surface does not leave any sediment to obstruct the sample during examination. BMP Tissue Grinders come fully assembled and gamma sterilized in an easy-to-open Tyvek® package. An extra cap and patient identification label are provided for storage, transport and traceability.

VIALS

Certified Vial Kits

LC Certified Vial Test Kits

LC Certified Vial Test Parameters include:

2.0mL, 12x32mm R.A.M.™ Vial with 9mm R.A.M.™ Royal Blue Polypropylene Open Top Cap.
Glass - Type I, Class A, 33 Expansion Clear or 51A Amber Borosilicate.
Dimensions – Height, Diameter, Bottom Thickness, Neck Length, Thread Profile, Annealing.
Cap/Septum – Diameter, Height, Thread Integrity, Center Flash, Septa Insertion.
Chemical Test – HPLC Test – Non-volatile residue, GC Test – Volatile Residue



Amber Glass Vial

Part No.	Description	Qty	List
V200-224	Bonded PTFE/Silicone Septa	100/cs	\$116.97
V200-226	w/ Grad. Marking Spot, Bonded PTFE/Silicone Septa	100/cs	\$125.55
V200-228	Bonded PTFE/Silicone Septa with Slit	100/cs	\$125.80
V200-230	w/ Grad. Marking Spot, Bonded PTFE/Silicone Septa with Slit	100/cs	\$131.23

Clear Glass Vial

Part No.	Description	Qty	List
V200-223	Bonded PTFE/Silicone Septa	100/cs	\$121.74
V200-225	w/ Grad. Marking Spot, Bonded PTFE/Silicone Septa	100/cs	\$129.35
V200-227	Bonded PTFE/Silicone Septa with Slit	100/cs	\$122.06
V200-229	w/ Grad. Marking Spot, Bonded PTFE/Silicone Septa with Slit	100/cs	\$198.20

Mass Spec Vial Test Kits

Mass Spec Vial Test Parameters include:

Mass Spec Certified 2.0mL, 12x32mm R.A.M.™ vial with 9mm R.A.M.™ Royal Blue Polypropylene Open Top Cap.
Glass – Type 1, Class A, 33 Expansion Clear or 51A Amber Borosilicate.
Dimensions – Height, Diameter, Bottom Thickness, Neck Length, Thread Profile, Annealing.
Cap/Septum – Diameter, Height, Thread Integrity, Center Flash, Septa Insertion.
GC/MS Background Test; LC/MS Background Test
Particle Counts – Particle Size, Particle/mL/Vial



Amber Glass Vial

Part No.	Description	Qty	List
V200-232	Bonded PTFE/Silicone Septa	100/cs	\$179.53
V200-234	w/ Grad. Marking Spot, Bonded PTFE/Silicone Septa	100/cs	\$192.44
V200-236	Bonded PTFE/Silicone Septa with Slit	100/cs	\$153.12
V200-238	w/ Grad. Marking Spot, Bonded PTFE/Silicone Septa with Slit	100/cs	\$201.26

Clear Glass Vial

Part No.	Description	Qty	List
V200-231	Bonded PTFE/Silicone Septa	100/cs	\$186.42
V200-233	w/ Grad. Marking Spot, Bonded PTFE/Silicone Septa	100/cs	\$143.26
V200-235	Bonded PTFE/Silicone Septa with Slit	100/cs	\$190.40
V200-237	w/ Grad. Marking Spot, Bonded PTFE/Silicone Septa with Slit	100/cs	\$207.34

Crimp Top - Big Mouth

Big Mouth Crimp Top Vials

40% larger opening prevents broken needles due to increased target area. Neck finish allows use of patented Poly Crimp™ Seals or standard aluminum seals. Designed to work in Agilent and other autosamplers. ID design incorporates the StepVial feature that precisely centers a limited volume insert in the vial neck. Available with graduated marking spots.



Amber Vial

Part no.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-101	2mL	100/pk	\$36.05	1000/cs	\$360.50
V200-136	2mL White Grad. Spot	100/pk	\$28.15	1000/cs	\$281.54

Clear Vial

Part no.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-100	2mL	100/pk	\$16.98	1000/cs	\$169.80
V200-133	2.0mL Silanized	100/pk	\$71.25	1000/cs	\$712.57
V200-135	2mL White Grad. Spot	100/pk	\$24.30	1000/cs	\$243.53
V200-157	2.5mL, 12x40mm	100/pk	\$34.20	1000/cs	\$342.00

Crimp Top - Snap Ring / Snap Seal

Snap Ring™/Crimp Top Vials, 11mm Crimp

Neck finish allows use of Snap Top Caps™, patented Poly Crimp™ Seals or standard aluminum seals. Snap Ring™ finish eliminates the need for crimping or decapping. Designed to work in Agilent and other autosamplers. ID design incorporates the Step Vial feature that precisely centers a limited volume insert in the vial neck. Available with graduated marking spots.



Amber Vial

Part no.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-142	2mL	100/pk	\$17.40	1000/cs	\$174.04
V200-146	2mL White Grad. Spot	100/pk	\$28.15	1000/cs	\$281.54

Clear Vial

Part no.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-141	2mL	100/pk	\$21.79	1000/cs	\$217.99
V200-145	2mL White Grad. Spot	100/pk	\$26.25	1000/cs	\$262.51

Limited Volume Snap Ring™ / Crimp Top Vials - Interlocked™ Vials, 11mm Crimp

The Finneran Interlocked™ Vial is composed of a 12x32 glass vial and a clear glass limited volume insert fused together. This design eliminates movement of the insert, allows more consistent sample recovery, eliminates needle damage and concerns about contaminants around the fused seam/space between the neck of the vial and the insert. Available with marking spots.



Amber Vial

Part No.	Description	Qty	List
V200-042	300µL Amber Interlocked™ Vial/Insert	100/pk	\$141.76
V200-044	300µL Amber Interlocked™ Vial/Insert with Marking Spot	100/pk	\$150.96

Clear Vial

Part No.	Description	Qty	List
V200-041	300µL Clear Interlocked™ Vial/Insert	100/pk	\$143.84
V200-043	300µL Clear Interlocked™ Vial/Insert with Marking Spot	100/pk	CALL

Snap Seal™ Vials, 11mm Crimp

The Snap Seal™ Vial can be securely sealed with the patented Poly Crimp™ Seal, an aluminum crimp seal or a variety of Snap Top Cap™ designs. More glass in the neck area minimizes breakage of the neck during decapping. Vial incorporates the unique StepVial design that precisely centers a limited volume insert in the vial neck, assuring dependable, reliable use with autosamplers.



Amber Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-076	2mL	100/pk	\$22.86	1000/cs	\$228.67
V200-080	2mL White Grad. Spot	100/pk	\$28.15	1000/cs	\$281.54

Clear Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-075	2mL	100/pk	\$21.80	1000/cs	\$217.99
V200-079	2mL White Grad. Spot	100/pk	\$26.25	1000/cs	\$262.50

Be sure to also check out the Crimper and De-Crimpers available on page 219.

Other options also available.



Limited Volume Snap Seal™ Vials, 11mm Crimp

The Finneran Interlocked™ Vial is composed of a 12x32 glass vial and a clear glass limited volume insert fused together. This design eliminates movement of the insert, allows more consistent sample recovery, eliminates needle damage and concerns about contaminants around the fused seam/space between the neck of the vial and the insert. Available with marking spots.



Clear Vial

Part No.	Description	Qty	List
V200-045	300µL Interlocked™ Vial/Insert	100/pk	\$138.03
V200-047	300µL Interlocked™ Vial/Insert with Marking Spot	100/pk	\$149.37

Snap Cap Closures

11mm Snap Caps

Caps may be snapped on and off by hand which eliminates the need for metal crimping and decapping tools, thus reducing potential hazards due to sharp aluminum metal edges. Large opening top provides greater target area for needle penetration. Available in a variety of colors for easy sample identification.

Size: 11mm



Part No.	Description	Qty	List
V424-084	Clear, PTFE/Butyl Rubber Septa	100/pk	\$25.83
V424-102	Red, PTFE/Silicone/PTFE Septa	100/pk	\$38.04

Crimp Top - Standard Opening

Standard Opening Crimp Top Vials

Neck finish allows use of patented Poly Crimp™ Seals or standard aluminum seals. Designed to work in Agilent and other autosamplers. Choose from clear or amber Type I borosilicate glass. Available with graduated marking spots.



Amber Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-123	2mL	100/pk	\$23.20	1000/cs	\$232.06
V200-125	2mL Silanized	100/pk	\$69.56	1000/cs	\$695.66
V200-127	2mL White Grad. Spot	100/pk	\$28.15	1000/cs	\$281.54

Clear Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-122	2mL	100/pk	\$35.83	1000/cs	\$358.28
V200-124	2mL Silanized	100/pk	\$53.44	1000/cs	\$534.43
V200-126	2mL White Grad. Spot	100/pk	\$26.25	1000/cs	\$262.51

Limited Volume Interlocked™ Standard Opening Crimp Vials

The Finneran Interlocked™ Vial is composed of a 12 x 32 glass vial and a clear glass limited volume insert fused together. This design eliminates movement of the insert, allows more consistent sample recovery, eliminates needle damage and concerns about contaminants around the fused seam/space between the neck of the vial and the insert. Available with marking spots.



Amber Vial

Part No.	Description	Qty	List
V200-034	100µL Amber Interlocked™ Vial/Insert	100/pk	\$141.76
V200-036	100µL Amber Interlocked™ Vial/Insert with Marking Spot	100/pk	\$150.96

Clear Vial

Part No.	Description	Qty	List
V200-033	100µL Clear Interlocked™ Vial/Insert	100/pk	\$140.76
V200-035	100µL Clear Interlocked™ Vial/Insert with Marking Spot	100/pk	\$147.56

Crimp Closures**Poly Crimp™ Seals, 11mm Crimp - Patented**

A crimp cap constructed of plastic that fits virtually any crimp top sample vial. Use a standard crimping tool to securely crimp the Poly Crimp™ Seal onto any crimp top vial. This cap is versatile. The Poly Crimp™ Seal permits an airtight seal by hand, without crimping. Securely crimp the Poly Crimp™ Seal onto any crimp top vial, both standard opening and Big Mouth...it's that easy!



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-333	Clear with Molded Septum	100/pk	\$7.57	1000/cs	\$75.70
V424-334	Clear with Starburst	100/pk	\$7.26	1000/cs	\$72.66
V424-335	Clear 10mil PTFE	100/pk	\$20.23	1000/cs	\$202.33
V424-336	Blue 10mil PTFE	100/pk	\$21.33	1000/cs	\$213.33
V424-337	Green 10mil PTFE	100/pk	\$21.33	1000/cs	\$213.33
V424-338	Red 10mil PTFE	100/pk	\$21.33	1000/cs	\$213.33
V424-339	Yellow 10mil PTFE	100/pk	\$21.33	1000/cs	\$213.33
V424-340	Clear PTFE/Butyl Rubber	100/pk	\$21.65	1000/cs	\$216.47
V424-341	Blue PTFE/Butyl Rubber	100/pk	\$22.67	1000/cs	\$226.74
V424-342	Green PTFE/Butyl Rubber	100/pk	\$22.67	1000/cs	\$226.74
V424-343	Red PTFE/Butyl Rubber	100/pk	\$22.67	1000/cs	\$226.74
V424-344	Yellow PTFE/Butyl Rubber	100/pk	\$22.67	1000/cs	\$226.74
V424-345	Clear PTFE/Silicone	100/pk	\$30.43	1000/cs	\$304.36
V424-346	Blue PTFE/Silicone	100/pk	\$31.19	1000/cs	\$311.97
V424-347	Green PTFE/Silicone	100/pk	\$31.19	1000/cs	\$311.97
V424-348	Red PTFE/Silicone	100/pk	\$31.19	1000/cs	\$311.97
V424-349	Yellow PTFE/Silicone	100/pk	\$31.19	1000/cs	\$311.97
V424-350	Clear PTFE/Silicone/PTFE	100/pk	\$36.23	1000/cs	\$362.33
V424-351	Blue PTFE/Silicone/PTFE	100/pk	\$37.10	1000/cs	\$371.00
V424-352	Green PTFE/Silicone/PTFE	100/pk	\$37.10	1000/cs	\$371.00
V424-353	Red PTFE/Silicone/PTFE	100/pk	\$37.10	1000/cs	\$371.00
V424-354	Yellow PTFE/Silicone/PTFE	100/pk	\$37.10	1000/cs	\$371.00
V424-355	Clear PTFE/Silicone with Slit	100/pk	\$63.53	1000/cs	\$635.34
V424-356	Clear PTFE/Silicone with Starburst	100/pk	\$59.23	1000/cs	\$592.33

Preassembled Aluminum Seals, 11mm

Made of the highest quality aluminum; for use with standard 11mm chromatography vials. The open top allows for filling and retrieving samples with a syringe. Seals are available in a variety of colors for easy sample identification.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-024	Silver, 10mil PTFE	100/pk	\$18.92	1000/cs	\$189.25
V424-996	Silver, Clear PTFE/Red Rubber	100/pk	\$15.79	1000/cs	\$157.88
V424-997	Blue, Clear PTFE/Red Rubber	100/pk	\$18.59	1000/cs	\$185.92
V424-998	Green, Clear PTFE/Red Rubber	100/pk	\$18.59	1000/cs	\$185.92
V424-999	Red, Clear PTFE/Red Rubber	100/pk	\$18.59	1000/cs	\$185.92
V425-000	Yellow, Clear PTFE/Red Rubber	100/pk	\$18.59	1000/cs	\$185.92
V425-001	Silver, Clear PTFE/Nat. Red Rubber	100/pk	\$9.77	1000/cs	\$97.90
V425-002	Blue, Clear PTFE/Nat. Red Rubber	100/pk	\$27.40	1000/cs	\$274.00
V425-003	Green, Clear PTFE/Nat. Red Rubber	100/pk	\$28.53	1000/cs	\$285.33
V425-004	Red, Clear PTFE/Nat. Red Rubber	100/pk	\$28.53	1000/cs	\$285.33
V425-005	Yellow, Clear PTFE/Nat. Red Rubber	100/pk	\$28.53	1000/cs	\$285.33
V424-038	Silver, PTFE/Silicone	100/pk	\$32.11	1000/cs	\$321.14
V424-039	Blue, PTFE/Silicone	100/pk	\$36.63	1000/cs	\$366.33
V424-040	Green, PTFE/Silicone	100/pk	\$36.63	1000/cs	\$366.33
V424-041	Red, PTFE/Silicone	100/pk	\$36.63	1000/cs	\$366.33
V424-042	Yellow, PTFE/Silicone	100/pk	\$36.63	1000/cs	\$366.33
V424-058	Silver, PTFE/Silicone/PTFE	100/pk	\$39.95	1000/cs	\$399.46
V424-059	Blue, PTFE/Silicone/PTFE	100/pk	\$43.06	1000/cs	\$430.66
V424-060	Green, PTFE/Silicone/PTFE	100/pk	\$43.06	1000/cs	\$430.66
V424-061	Red, PTFE/Silicone/PTFE	100/pk	\$43.06	1000/cs	\$430.66
V424-062	Yellow, PTFE/Silicone/PTFE	100/pk	\$43.06	1000/cs	\$430.66
V424-064	Silver, PTFE/Silicone Slit	100/pk	\$43.52	1000/cs	\$435.27

Convenience Packs

Big Mouth Crimp Convenience Packs

With graduation spots

<i>Amber Vial</i>		<i>Silver Seal</i>			
Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-336	PTFE/Red Rubber	100/pk	\$59.13	1000/cs	\$591.33
V425-333	PTFE/Silicone	100/pk	\$67.83	1000/cs	\$678.33
V425-335	PTFE/Silicone/PTFE	100/pk	\$75.73	1000/cs	\$757.33



<i>Clear Vial</i>		<i>Silver Seal</i>			
Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-329	PTFE/Red Rubber	100/pk	\$38.31	1000/cs	\$383.14
V425-331	PTFE/Silicone	100/pk	\$59.26	1000/cs	\$592.67
V425-330	w/Grad. Spot, PTFE/Red Rubber	100/pk	\$48.57	1000/cs	\$485.78
V425-332	w/Grad. Spot, PTFE/Silicone	100/pk	\$65.70	1000/cs	\$657.00

Standard Crimp Convenience Packs

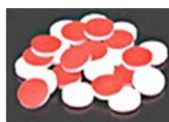
Components packaged in a clear lid tray. Fits into bench drawer for easy access and packaging keeps products visible and particle free.



11mm Silver Seal, Clear PTFE/Red Rubber

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-327	Clear Vial	100/pk	\$51.80	1000/cs	\$518.00
V425-328	Amber Vial	100/pk	\$53.56	1000/cs	\$535.67

Never feel you don't have options. We have more closures and septas available.
Let us know your needs and we will do what we can to meet them.



Closures only, septas only & convenience packs
are all available.



Dram Vials

Dram Vials

Clear and amber dram sample vials are made of Type I borosilicate glass, providing exceptional resistance to heat shock and chemical leaching. Finneran dram vials are available precleaned, precleaned/certified and silanized.



Amber Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-060	1/2 Dram, 12x35mm, 8-425mm Thread	100/pk	\$29.33	1000/cs	\$293.33
V200-174	1 Dram, 15x45mm, 13-425mm Thread	100/pk	\$27.73	1000/cs	\$277.34
V200-184	2 Dram, 17x60mm, 15-425mm Thread	100/pk	\$74.18	1000/cs	\$741.87
V200-186	3 Dram, 19x65mm, 15-425mm Thread	100/pk	\$76.09	1000/cs	\$760.90
V200-188	4 Dram, 21x70mm, 18-400mm Thread	100/pk	\$75.23	1000/cs	\$752.33
V200-190	6 Dram, 23x85mm, 20-400mm Thread	100/pk	\$83.63	1000/cs	\$836.29

Clear Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-090	1/2 Dram, 12 x 35mm, 8-425mm Thread	100/pk	\$27.60	1000/cs	\$276.00
V200-173	1 Dram, 15 x 45mm, 13-425mm Thread	100/pk	\$23.43	1000/cs	\$234.35
V200-183	2 Dram, 17 x 60mm, 15-425mm Thread	100/pk	\$62.77	1000/cs	\$627.74
V200-185	3 Dram, 19 x 65mm, 15-425mm Thread	100/pk	\$52.95	1000/cs	\$529.49
V200-187	4 Dram, 21 x 70mm, 18-400mm Thread	100/pk	\$87.87	1000/cs	\$878.76
V200-189	6 Dram, 23 x 85mm, 20-400mm Thread	100/pk	\$98.53	1000/cs	\$985.33
V425-079	8 Dram, 25 x 95mm, 22-400mm Thread	n/a	n/a	144/cs	\$192.78

Closures for Dram Vials

Threaded Closures for Dram Vials



Polypropylene Open Hole Cap

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-122	8-425mm Black	100/pk	\$5.97	1000/cs	\$59.73
V424-126	8-425mm White	100/pk	\$6.96	1000/cs	\$69.63
V424-148	13-425mm Black	100/pk	\$6.59	1000/cs	\$65.98
V424-152	13-425mm White	100/pk	\$7.13	1000/cs	\$71.33
V424-154	15-425mm Black	100/pk	\$5.94	1000/cs	\$59.42
V425-187	15-425mm White	100/pk	\$9.75	1000/cs	\$97.58
V424-155	18-400mm Black	100/pk	\$11.76	1000/cs	\$117.66
V424-157	20-400mm Black	100/pk	\$10.96	1000/cs	\$109.66
V424-158	22-400mm Black	100/pk	\$21.13	1000/cs	\$211.33
V424-159	24-400mm Black	100/pk	\$9.80	1000/cs	\$98.00
V425-188	24-414mm Black	100/pk	\$21.76	1000/cs	\$217.67
C560-000	24-414mm Black, Bonded 0.060" PTFE/Silicone	100/pk	\$75.23	n/a	n/a
C560-001	24-414mm White, Bonded 0.125" PTFE/Silicone	n/a	n/a	100/cs	\$114.13
C560-002	24-414mm White, Bonded 0.125" PTFE/Silicone	n/a	n/a	144/cs	\$108.43
C560-003	24-414mm Black, Bonded 0.125" PTFE/Silicone	n/a	n/a	100/cs	\$107.83
C560-004	24-414mm White, Bonded 0.125" PTFE/Silicone	n/a	n/a	1000/cs	\$427.04

Polypropylene Solid Top Cap, Unlined

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-168	8-425mm Black	100/pk	\$6.35	1000/cs	\$63.54
V425-195	8-425mm White	100/pk	\$7.33	1000/cs	\$73.33
V424-171	13-425mm Black	100/pk	\$6.76	1000/cs	\$67.66
V425-200	13-425mm White	100/pk	\$7.33	1000/cs	\$73.33
V424-172	15-425mm Black	100/pk	\$7.33	1000/cs	\$73.33
V424-173	15-425mm White	100/pk	\$8.76	1000/cs	\$87.66
V424-174	18-400mm Black	100/pk	\$13.40	1000/cs	\$134.00
V424-175	20-400mm Black	100/pk	\$11.73	1000/cs	\$117.33
V424-176	24-400mm Black	100/pk	\$10.60	1000/cs	\$106.00
V425-201	24-414mm Black	100/pk	\$13.66	1000/cs	\$136.66
V425-203	24-414mm White	100/pk	\$14.10	1000/cs	\$141.00



Glass Filled Polypropylene Open Hole Cap

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-210	13-425mm Black	100/pk	\$9.83	1000/cs	\$98.33
V424-184	24-400mm Black	100/pk	\$14.26	1000/cs	\$142.66



Polypropylene Solid Top Cap, PTFE/F217 Lined

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-188	8-425mm Black	100/pk	\$21.76	1000/cs	\$217.67
V424-195	13-425mm Black	100/pk	\$21.67	1000/cs	\$216.75
V424-196	13-425mm White	100/pk	\$23.24	1000/cs	\$232.38
V424-197	15-425mm Black	100/pk	\$33.47	1000/cs	\$334.78
V424-198	15-425mm White	100/pk	\$26.47	1000/cs	\$264.74
V425-220	18-425mm Black	100/pk	\$40.30	1000/cs	\$403.00
V424-199	20-400mm Black	100/pk	\$46.46	1000/cs	\$464.66



Ribbed Thermoset Solid Top, PTFE/F217 Lined

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-221	8-425mm Green	100/pk	\$43.00	1000/cs	\$430.00
V425-222	13-425mm Green	100/pk	\$23.15	1000/cs	\$231.50
V425-223	15-425mm Green	100/pk	\$31.53	1000/cs	\$315.33
V425-224	18-400mm Green	100/pk	\$50.30	1000/cs	\$503.00
V425-225	20-400mm Green	100/pk	\$53.73	1000/cs	\$537.33



Polypropylene, Black

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-513	15-425mm Open Hole, PTFE/Silicone Septa, 0.065"	100/pk	\$42.16	1000/cs	\$491.66
V424-519	20-400mm Solid Top, Bonded PTFE/Silicone Lined	100/pk	\$97.10	1000/cs	\$971.00
C560-006	24-400mm Top Hat™, PTFE/Silicone	n/a	n/a	100/cs	\$82.37



Septa for Dram Vial Closures



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-358	8mm x 0.010" White PTFE Septa	100/pk	\$3.14	1000/cs	\$31.38
V424-361	13mm x 0.010" White PTFE Septa	100/pk	\$5.04	1000/cs	\$50.41
V424-362	20mm x 0.010" White PTFE Septa	100/pk	\$14.33	1000/cs	\$143.33
V424-386	13mm x 0.060" Gray PTFE/SIL Septa for 1 Dram Vials	100/pk	\$29.46	1000/cs	\$294.66
V424-387	15mm x 0.060" Gray PTFE/SIL Septa for 2 or 3 Dram Vials	100/pk	\$26.18	1000/cs	\$261.80
V424-388	18mm x 0.060" Gray PTFE/SIL Septa for 4 Dram Vials	100/pk	\$43.63	1000/cs	\$436.33
V424-389	20mm x 0.060" Gray PTFE/SIL Septa for 6 Dram Vials	100/pk	\$49.96	1000/cs	\$499.66
V424-401	20mm x 0.100" PTFE/Silicone Septa	100/pk	\$46.92	1000/cs	\$469.18
V424-403	22mm x 0.100" PTFE/Silicone Septa	100/pk	\$75.64	1000/cs	\$756.40
V424-404	22.5mm x 0.100" PTFE/Silicone Septa	100/pk	\$55.73	1000/cs	\$557.35
V424-406	22.5mm x 0.125" PTFE/Silicone Septa	100/pk	\$57.06	1000/cs	\$570.67

Dram Convenience Packs**Preassembled Convenience Packs**

Dram vials assembled with polypropylene closures and septa.

Amber Vial Solid Top

Part No.	Description	Qty	List
V425-287	1/2 Dram, 12 x 35mm, 8-425mm Black, PTFE/F217 Lined	100/pk	\$61.66
V424-546	1 Dram, 15 x 45mm, 13-425mm Black, PTFE/F217 Lined	100/pk	\$62.04
V425-290	2 Dram, 17 x 60mm, 15-425mm Black, PTFE/F217 Lined	100/pk	\$71.22
V424-553	3 Dram, 19 x 65mm, 15-425mm, PTFE/F217 Lined	100/pk	\$102.72
V425-288	6 Dram, 23 x 85mm, 20-400mm, PTFE/F217 Lined	100/pk	\$147.00

Amber Vial Open Hole Top

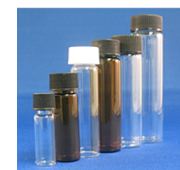
Part No.	Description	Qty	List
V424-550	2 Dram, 17 x 60mm, 15-425mm Black, PTFE/SIL Lined	100/pk	\$127.66
V424-557	4 Dram, 21 x 70mm, 18-400mm	100/pk	\$126.00
V425-286	4 Dram, 21 x 70mm, 18-400mm	100/pk	\$156.33
V425-289	6 Dram, 23 x 85mm, 20-400mm Black, PTFE/SIL Lined	100/pk	\$171.66
V424-555	3 Dram, 19 x 65mm, 15-425mm, PTFE/Silicone Lined	100/pk	\$138.16

Clear Vial Solid Top

Part No.	Description	Qty	List
V424-776	1/2 Dram, 12 x 32mm, 8-425mm Black, PTFE/F217 Lined	100/pk	\$37.64
V424-544	1/2 Dram, 12 x 35mm, 8-425mm Black, PTFE/F217 Lined	100/pk	\$57.06
V424-545	1 Dram, 15 x 45mm, 13-425mm Black, PTFE/F217 Lined	100/pk	\$58.97
V424-547	2 Dram, 17 x 60mm, 15-425mm, PTFE/F217 Lined	100/pk	\$62.48
V424-552	3 Dram, 19 x 65mm, 15-425mm, PTFE/F217 Lined	100/pk	\$68.48
V425-285	3 Dram, 19 x 65mm, 15-425mm White, PTFE/F217 Lined	100/pk	\$91.00
V424-556	4 Dram, 21 x 70mm, 18-400mm, PTFE/F217 Lined	100/pk	\$91.31
V424-559	6 Dram, 23 x 85mm, 20-400mm, PTFE/F217 Lined	100/pk	\$140.76

Clear Vial Open Hole Top

Part No.	Description	Qty	List
V424-549	2 Dram, 17 x 60mm, 15-425mm Black, PTFE/SIL Lined	100/pk	\$117.33
V424-554	3 Dram, 19 x 65mm, 15-425mm, PTFE/Silicone Lined	100/pk	\$127.00
V424-558	4 Dram, 21 x 70mm, 18-400mm, PTFE/Silicone Lined	100/pk	\$159.41
V424-560	6 Dram, 23 x 85mm, 20-400mm Black, PTFE/SIL Lined	100/pk	\$120.61

**Ask us about M-T Vial Files®**

Clear plastic hinged case for use with either 8 or 20 mL vials.

Convenient for storing and transporting vials.

Partitions protect vials.

Includes alpha numerical indexing card.

Extra partitions and index cards can be purchased separately.

Similar to existing M-T Vial Files® that hold either 2 or 4 mL vials.

The partitions are designed to provide extra protection for the vials. The alpha numerical indexing card allows for identification of each sample vial. The M-T Vial File® comes with polystyrene case, partitions and indexing card.

Partitions and index cards can also be purchased separately.



Flat Bottom Headspace Vials**20mm Crimp Headspace Vials**

Available in clear or amber Type I borosilicate glass with crimp or screw thread finishes. The vials are used to heat the sample until the concentration of the liquid and gas phases are in equilibrium. A sample is then taken from the gas phase (headspace) for analysis.

**Amber Vial**

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-037	10mL, 23x46mm, 20mm Beveled Edge Crimp	100/pk	\$64.40	1000/cs	\$644.00
V425-053	20mL, 23x75mm, 20mm Beveled Edge Crimp	100/pk	\$57.66	1000/cs	\$576.66

Clear Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-191	6mL, 22x38mm, 20mm Beveled Edge Crimp	100/pk	\$54.02	1000/cs	\$540.23
V425-089	6mL, 22x38mm, 20mm Flat Top Crimp	100/pk	\$52.47	1000/cs	\$524.66
V200-192	10mL, 23x46mm, 20mm Beveled Edge Crimp	100/pk	\$53.26	1000/cs	\$532.62
V200-193	20mL, 23x75mm, 20mm Beveled Edge Crimp	100/pk	\$53.26	1000/cs	\$532.62
V425-055	20mL, 23x75mm, Flat Bottom, 20mm Flat Top Crimp	100/pk	\$53.06	1000/cs	\$530.66
V200-196	27mL, 30x60mm (for Shimadzu), 20mm Crimp	n/a	n/a	1000/cs	\$1298.66

18mm Screw Thread Flat Bottom Headspace Vials

Available in clear or amber Type I borosilicate glass with crimp or screw thread finishes. The vials are used to heat the sample until the concentration of the liquid and gas phases are in equilibrium. A sample is then taken from the gas phase (headspace) for analysis.

Amber Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-198	10mL, 23x46mm, 18mm Thread	100/pk	\$71.43	1000/cs	\$714.33
V200-201	20mL, 23x75mm, 18mm Thread	100/pk	\$73.12	1000/cs	\$731.66

**Clear Vial**

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-197	10mL, 23x46mm, 18mm Thread	100/pk	\$50.24	1000/cs	\$502.41
V425-046	15mL, 23x60mm, 18mm Thread	100/pk	\$50.96	1000/cs	\$509.66
V200-199	20mL, 23x75mm, 18mm Thread	100/pk	\$54.66	1000/cs	\$546.66

Beveled Bottom Headspace Vials**20mm Crimp Headspace Vials**

Available in clear or amber Type I borosilicate glass with crimp or screw thread finishes. The vials are used to heat the sample until the concentration of the liquid and gas phases are in equilibrium. A sample is then taken from the gas phase (headspace) for analysis.

**Amber Vial**

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-071	20mL, 23x75mm, 20mm Beveled Edge Crimp	100/pk	\$75.86	1000/cs	\$738.66

Clear Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-203	10mL, 23x46mm, 20mm Beveled Edge Crimp	100/pk	\$68.48	1000/cs	\$684.80
V200-204	20mL, 23x75mm, 20mm Beveled Edge Crimp	100/pk	\$68.48	1000/cs	\$684.80
V425-072	20mL, 23x75mm, 20mm Flat Top Crimp	100/pk	\$66.23	1000/cs	\$662.33
V425-076	20mL, 20mm Flat Top Crimp, Long Neck	100/pk	\$73.16	1000/cs	\$731.66

18mm Screw Thread Rounded Bottom Headspace Vials

Available in clear or amber Type I borosilicate glass with crimp or screw thread finishes. The vials are used to heat the sample until the concentration of the liquid and gas phases are in equilibrium. A sample is then taken from the gas phase (headspace) for analysis.

Amber Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-210	10mL, 23x46mm, 18mm Thread	100/pk	\$69.53	1000/cs	\$695.33
V200-213	20mL, 23x75mm, 18mm Thread	100/pk	\$74.53	1000/cs	\$745.33

**Clear Vial**

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-209	10mL, 23x46mm, 18mm Thread	100/pk	\$63.91	1000/cs	\$639.14
V200-211	20mL, 23x75mm, 18mm Thread	100/pk	\$66.79	1000/cs	\$667.95



Aluminum Seals & Closures for Headspace and SPME Vials

Aluminum Seals, Unlined (20mm)

Available in bulk packaging & additional colors



Silver Seal

Part No.	Description	Qty	List
V424-002	Silver Seal	1000/cs	\$77.00
V424-006	Center Tear Silver Seal	1000/cs	\$69.66
V424-014	Total Tear Away Silver Seal	1000/cs	\$67.66

Aluminum Seals, Lined (20mm)

Preassembled aluminum seals reduce contamination during sample preparation and save valuable time in the lab.

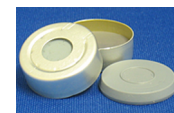


Silver Seal

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-026	10mil PTFE	100/pk	\$31.20	1000/cs	\$312.00
V425-007	0.131" PTFE/Gray Butyl Rubber	100/pk	\$99.50	1000/cs	\$995.00
V424-027	PharmaFix Molded Gray PTFE/Black Butyl Lined	n/a	n/a	100/cs	\$104.09
V424-047	0.125" PTFE/Silicone	100/pk	\$58.02	1000/cs	\$580.15
V424-048	8mm Hole, 0.125" PTFE/Blue Silicone	n/a	n/a	100/cs	\$83.00
V425-152	3mm Tan PTFE/White Silicone, Ultra Clean, Septa for High Temperatures up to 250°C	n/a	n/a	100/cs	\$97.00

Aluminum Seals – Pressure Release (20mm)

Pressure release seals are designed to open when internal pressure exceeds 3.0+/-0.5 bar.



Silver Seal

Part No.	Description	Qty	List
V424-028	0.131" PTFE/Molded Gray Butyl	100/pk	\$175.00
V424-029	0.140" PTFE/Rubber PharmaFix Septa	100/pk	\$205.44
V424-030	0.100" PTFE/Silicone	100/pk	\$163.59

Aluminum Seals - Ultra Low Bleed Septa (20mm)

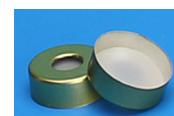
Silver Seal

Part No.	Description	Qty/pk	Qty/cs	List/cs
V424-049	3mm Thick Clear PTFE/Blue Silicone Septa	100/pk	1000/cs	\$86.86



Tin Plate Seals – Magnetic (20mm)

Tin Plate seals are ideal for Leap Instruments or instruments utilizing magnetic transport.



Silver Tin Plate Seal

Part No.	Description	Qty	List
V424-031	5mm Hole, 0.131" PTFE/Butyl Rubber	100/pk	\$152.33
V424-032	8mm Hole, 0.131" PTFE/Butyl Rubber	100/pk	\$114.77
V424-034	5mm Hole, 0.100" PTFE/Silicone	100/pk	\$136.33
V424-035	8mm Hole, 0.100" PTFE/Silicone	100/pk	\$138.66

Gold Magnetic Seal

Part No.	Description	Qty	List
V424-033	8mm Hole, 0.125" Natural PTFE/Blue Silicone	100/pk	\$119.33
V424-055	8mm Hole, 0.125" Clear PTFE/Clear Blue Silicone	100/pk	\$95.11

Looking for storage solutions?
See page 218 for vial rack options.

BiMetal Seals - Magnetic (20mm)

The BiMetal Seal is comprised of tin and aluminum materials. The outer surface (red or blue) is aluminum and the inner diameter is a silver tin.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-051	Red, 0.100" PTFE/Silicone	n/a	n/a	100/cs	\$78.00
V424-050	Blue, 0.100" PTFE/Silicone	n/a	n/a	100/cs	\$78.00
V424-053	Red, 0.118" PTFE/Silicone	n/a	n/a	100/cs	\$79.89
V424-052	Blue, 0.118" PTFE/Silicone	n/a	n/a	100/cs	\$93.00
V424-054	Blue, 3mm Thick Clear PTFE/Blue Silicone (Ultra Low Bleed)	100/pk	\$96.90	1000/cs	\$969.00

Metal Threaded Closure (18mm)

Silver Magnetic (Metal) Closure

Part No.	Description	Qty	List
V424-185	0.075" Red PTFE/Silicone Liner (Shore A45)	100/pk	\$90.51
V424-187	Translucent Blue 0.125" PTFE/Silicone (Shore A45)	100/pk	\$97.58
V424-186	0.060" Blue PTFE/Silicone (Shore A45)	100/pk	\$90.51



Silver Magnetic (Metal) Closure Ultra Low Bleed

Part No.	Description	Qty	List
V425-211	0.050" Red PTFE/Silicone Liner (Shore A45)	100/pk	110.66
V425-212	0.050" White PTFE/Translucent Blue Silicone (Shore A45)	100/pk	110.66
V425-215	0.060" Blue PTFE/White Silicone Liner (Shore A55)	100/pk	113.00

Thinner Seal for SPME Applications (20mm)

When using a thicker lip SPME vial, the 20mm seal with a PTFE/Silicone septum is an ideal choice in order to extend the life of the needle.

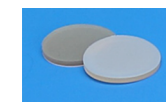


Gold Magnetic Seal 8mm Hole

Part No.	Description	Qty	List
V424-036	Thin .060" (1.5mm) Blue PTFE/White Silicone for SPME	100/pk	\$167.40
V424-056	Thin .060" (1.5mm) Natural PTFE/Silicone for SPME	100/pk	\$93.59

Ultra Low Bleed Septa for 18mm & 20mm Headspace Closures

Part No.	Description	Qty	List
V424-405	19mm x 0.125" Natural PTFE/Blue	100/cs	\$59.99



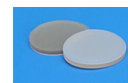
Septa for 18mm Magnetic Threaded Closures

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-385	17.5mm x 0.060" Blue PTFE/Silicone Septa	100/pk	\$56.16	1000/pk	\$561.66



Septa for 20mm Aluminum Seals

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-261	20mm x 0.140" PTFE/Butyl Rubber PharmaFix Septa	100/pk	\$49.40	1000/cs	\$494.00
V425-257	Septa for 20mm Aluminum Seals	100/pk	\$12.13	1000/cs	\$121.33



Scintillation Vials

20mL Glass Scintillation Vials with Attached Caps

Glass 20mL scintillation vials with attached caps. Vials packaged in cellular trays which have alphanumeric coordinates for fast, easy identification.

27mm OD x 57mm height.

Five trays per case, shrink-wrapped to preserve cleanliness.

Vials are manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



GPI Finish: 22/400

Part No.	Cap Liner	Cap Material	Qty	List
V120-003	Cork-backed Foil	Urea	500/cs	\$221.56
G538-236	Polyethylene	Urea	500/cs	\$311.58
G538-237	Foamed Polyethylene	Polypropylene	500/cs	\$263.70
V120-002	Pulp-backed Foil	Polypropylene	500/cs	\$210.58
G538-240	Foamed Polyethylene	Polypropylene	500/cs	\$240.65
G538-242	Metal Foil	Urea	500/cs	\$298.48
G538-243	Polyethylene	Urea	500/cs	\$311.28
G538-244	Metal Foil	Polypropylene	500/cs	\$273.98
V625-005	Cone-shaped Polyethylene	Urea	500/cs	\$302.46

Scintillation Vials w/out Caps

Glass 20mL scintillation vials *without* caps. Vials packaged in cellular trays which have alphanumeric coordinates for fast, easy identification. Closures packed separately in polyethylene bags of 100 Pieces (not included). Each tray contains 100 vials. Five trays per case, shrink wrapped to preserve cleanliness. Vials are manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A Requirements.



GPI Finish: 22-400

Part No.	Description	Qty	List
G538-241	20mL Vial	500/cs	\$230.74

Screw Thread Big Mouth

Big Mouth Screw Thread Vials, 12x32mm, 10-425mm Neck Finish

40% larger opening prevents broken needles due to increased target area. Choose from clear or amber Type I borosilicate glass. ID design incorporates the StepVial feature that precisely centers a limited volume insert in the vial neck. Available with graduated marking spots.



Amber Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-111	2mL	100/pk	\$25.11	1000/cs	\$251.10
V200-113	2mL, Silanized	100/pk	\$71.20	1000/cs	\$712.00
V200-116	2mL, White Graduation Spot	100/pk	\$30.05	1000/cs	\$300.55

Clear Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-110	2mL	100/pk	\$24.35	1000/cs	\$243.48
V200-112	2mL, Silanized	100/pk	\$70.43	1000/cs	\$704.33
V200-114	2mL, White Graduation Spot	100/pk	\$28.15	1000/cs	\$281.54

Big Mouth Interlocked™ Screw Thread Vials

The Finneran Interlocked™ Vial is composed of a 12x32 glass vial and a clear glass limited volume insert fused together. This design eliminates movement of the insert, allows more consistent sample recovery, eliminates needle damage and concerns about contaminants around the fused seam/space between the neck of the vial and the insert. Available with marking spots.



Amber Vial

Part No.	Description	Qty	List
V200-030	300µL Interlocked™ Vial/Insert	100/pk	\$144.57
V200-032	300µL Interlocked™ Vial/Insert with Marking Spot	100/pk	\$150.97

Clear Vial

Part No.	Description	Qty	List
V200-031	300µL Interlocked™ Vial/Insert with Marking Spot	100/pk	\$147.56
V200-029	300µL Interlocked™ Vial/Insert	100/pk	\$140.76

Large Open R.A.M.

Large Opening R.A.M.™ Vials

Finneran R.A.M.™ Vials designed specifically to work in robotic arm autosamplers have a crimp style height with the convenience of a screw thread configuration. Choose from clear or amber Type I borosilicate glass. Vials are available with or without graduated marking spots. Vials are also available silanized.



Amber Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-098	2mL	100/pk	\$24.73	1000/cs	247.30
V200-102	2mL, Silanized	100/pk	\$70.40	1000/cs	704.00
V200-104	2mL, White Graduation Spot	100/pk	\$30.05	1000/cs	300.55

Clear Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-097	2mL	100/pk	\$22.83	1000/cs	\$228.26
V200-099	2mL, Silanized	100/pk	\$70.11	1000/cs	\$701.15
V396-004	2mL, White Graduation Spot	100/pk	\$24.87	1000/cs	\$248.77

Standard Opening

Standard Opening Screw Thread Vials, 12x32mm, 8-425mm Neck Finish

Narrow opening allows use of 8-425mm closures and septa. Designed to work in a variety of autosampler requiring narrow neck vials. Choose from clear or amber Type I borosilicate glass. Available with graduated marking spots.



Amber Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-087	2mL	100/pk	\$23.97	1000/cs	\$239.68
V200-089	2mL, Silanized	100/pk	\$70.23	1000/cs	\$702.33
V200-092	2mL, White Graduation Spot	100/pk	\$28.53	1000/cs	\$285.33

Clear Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-086	2mL	100/pk	\$29.11	1000/cs	\$291.12
V200-088	2mL, Silanized	100/pk	\$68.03	1000/cs	\$680.33
V200-091	2mL, White Graduation Spot	100/pk	\$26.63	1000/cs	\$266.31

Limited Volume Interlocked™ Screw Thread Vials

The Finneran Interlocked™ Vial is composed of a 12 x 32 glass vial and a clear glass limited volume insert fused together. This design eliminates movement of the insert, allows more consistent sample recovery, eliminates needle damage and concerns about contaminants around the fused seam/space between the neck of the vial and the insert. Available with marking spots.



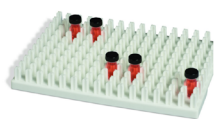
Amber Vial

Part No.	Description	Qty	List
V200-020	100µL Interlocked™ Vial/Insert	100/pk	\$142.33
V200-022	100µL Interlocked™ Vial/Insert with Marking Spot	100/pk	\$150.92

Clear Vial

Part No.	Description	Qty	List
V200-019	100µL Interlocked™ Vial/Insert	100/pk	\$140.76
V200-021	100µL Interlocked™ Vial/Insert with Marking Spot	100/pk	\$147.56

You can never be too organized.
So many rack solutions to choose from!



Screw Thread Closures

Screw Thread Closures (10-425mm)

Larger opening provides increased target area for needle penetration. Closures are ideal for autosamplers requiring closures to support or hang in vial tray (Hitachi, Jasco, Shimadzu). Available in a wide assortment of colors. The Top Seal™ closure with a 10mil molded septa allows for easy needle penetration and is inert to most solvents. The one piece design saves time by eliminating the process of assembling liners in the closures.



Polypropylene

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-142	Black, Open Hole Cap	100/pk	\$8.94	1000/cs	\$89.39
V424-143	Blue, Open Hole Cap	100/pk	\$9.84	1000/cs	\$98.92
V424-144	Green, Open Hole Cap	100/pk	\$9.50	1000/cs	\$95.00
V424-145	Red, Open Hole Cap	100/pk	\$9.50	1000/cs	\$95.00
V424-146	White, Open Hole Cap	100/pk	\$9.89	1000/cs	\$98.92
V424-147	Yellow, Open Hole Cap	100/pk	\$9.50	1000/cs	\$95.00
V424-170	Solid Top, Black, Unlined Cap	100/pk	\$9.27	1000/cs	\$92.66
V424-181	Top Seal™ Closure, Clear, molded 10mil Septa	100/pk	\$10.38	1000/cs	\$103.78
V424-183	Starburst Top Seal™ Closure, Clear, molded 10mil Septa	100/pk	\$6.73	1000/cs	\$117.33
V424-194	Solid Top, Black PTFE/F217 Lined Cap	100/pk	\$21.68	1000/cs	\$216.86

Septa for Screw Thread Closures (10-425mm)



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-360	10mm x 0.010" White PTFE Septa	100/pk	\$4.95	1000/cs	\$49.46
V425-253	10mm x 0.030" Black Viton® Septa	100/pk	\$62.40	1000/cs	\$624.00
V424-369	10mm x 0.040" PTFE/Red Rubber Septa	100/pk	\$18.03	1000/cs	\$180.33
V424-370	10mm x 0.040" PTFE/Butyl Rubber Septa	100/pk	\$19.06	1000/cs	\$190.66
V424-376	10mm x 0.040" Red PTFE/Silicone/Red PTFE Septa	100/pk	\$36.83	1000/cs	\$368.28
V424-379	10mm x 0.040" Red PTFE/Silicone with Slit Septa	100/pk	\$50.22	1000/cs	\$502.19
V425-255	10mm x 0.050" Red PTFE/White Silicone Septa	100/pk	\$26.78	1000/cs	\$267.84
V424-383	10mm x 0.060" Red PTFE/Silicone Septa	100/pk	\$24.88	1000/cs	\$248.80
V424-391	10mm x 0.060" Red PTFE/Silicone with Slit Septa	100/pk	\$46.57	1000/cs	\$465.66
V424-397	10mm x 0.075" Red PTFE/Silicone Septa	100/pk	\$28.23	1000/cs	\$282.33

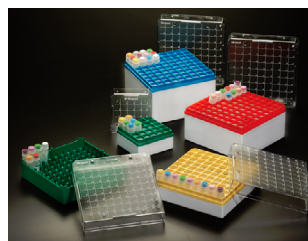
Preassembled Screw Thread Closures and Septa (10-425mm)

Choose the preassembled caps with septa best suitable for your application.



Part No.	Description	Qty	List
V424-490	Black Closure, ETFE/Red Rubber Septa, 0.040"	100/pk	\$44.77
V424-494	Black Closure, PTFE/Silicone/PTFE Septa, 0.040"	100/pk	\$42.65
V424-497	Black Closure, PTFE/Silicone/PTFE Septa, 0.040" w/Slit	100/pk	\$76.13
V425-271	Black Closure, Red PTFE/Silicone Septa, 0.050"	100/pk	\$43.53
V424-501	Black Closure, Red PTFE/Silicone Septa, 0.060"	100/pk	\$45.65
V424-505	Black Closure, Red PTFE/Silicone Septa, 0.060" with Slit	100/pk	\$73.80
V425-278	Black Closure, Black Viton® Septa, 0.060"	100/pk	\$83.16

We also have Cryo-Vials available along with Cryo storage
See page 315 to 316 for just some of our
many options available.



Screw Thread Closures (9mm)

Easy-on, easy-off convenience with a twist of the cap that produces an evaporation-proof seal. Larger opening provides increased target area for needle penetration. Available in a variety of colors for easy sample identification.



R.A.M.™ Ribbed

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-136	Black, Polypropylene Open-Hole Cap	100/pk	\$5.47	1000/cs	\$54.71
V424-137	Royal Blue, Polypropylene Open-Hole Cap	100/pk	\$5.47	1000/cs	\$54.71
V424-138	Green, Polypropylene Open-Hole Cap	100/pk	\$5.47	1000/cs	\$54.71
V424-139	Natural, Polypropylene Open-Hole Cap	100/pk	\$6.83	1000/cs	\$68.33
V424-140	Red, Polypropylene Open-Hole Cap	100/pk	\$5.47	1000/cs	\$54.71
V424-141	Yellow, Polypropylene Open-Hole Cap	100/pk	\$5.47	1000/cs	\$54.71

R.A.M.™ Smooth

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-130	Black, Polypropylene Open-Hole Cap	100/pk	\$6.98	1000/cs	\$69.79
V424-131	Royal Blue, Polypropylene Open-Hole Cap	100/pk	\$6.98	1000/cs	\$69.79
V424-132	Green, Polypropylene Open-Hole Cap	100/pk	\$6.83	1000/cs	\$68.33
V424-133	Natural, Polypropylene Open-Hole Cap	100/pk	\$6.83	1000/cs	\$68.33
V424-134	Red, Polypropylene Open-Hole Cap	100/pk	\$6.83	1000/cs	\$68.33
V424-135	Yellow, Polypropylene Open-Hole Cap	100/pk	\$6.83	1000/cs	\$68.33

R.A.M.™ Solid Top

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-169	Black Polypropylene Unlined Cap	100/pk	\$6.60	1000/cs	\$66.00
V424-180	Top Seal™ Closure, Clear PP, Molded 10mil Septa	100/pk	\$10.26	1000/cs	\$102.66
V424-189	Black Polypropylene PTFE/F217 Lined Cap	100/pk	\$20.73	1000/cs	\$207.25

Preassembled R.A.M.™ Smooth Screw Thread Closure and Septa (9mm)

Preassembled smooth closures and septa come ready to use. Designed to work in Agilent or other robotic arm autosamplers.



R.A.M.™ Smooth

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-231	Royal Blue Cap, PTFE/Silicone with Y Cut	100/pk	\$42.47	1000/cs	\$424.66
V424-201	Black Cap, PTFE	100/pk	\$18.70	1000/cs	\$187.00
V424-202	Black Cap, PTFE/Butyl Rubber	100/pk	\$25.78	1000/cs	\$257.84
V424-208	Royal Blue Cap, PTFE/Butyl Rubber	100/pk	\$26.78	1000/cs	\$267.84
V424-203	Green Cap, PTFE/Butyl Rubber	100/pk	\$26.78	1000/cs	\$267.84
V424-204	Natural Cap, PTFE/Butyl Rubber	100/pk	\$26.57	1000/cs	\$265.70
V424-207	Red Cap, PTFE/Butyl Rubber	100/pk	\$25.98	1000/cs	\$259.80
V424-209	Yellow Cap, PTFE/Butyl Rubber	100/pk	\$26.76	1000/cs	\$267.76
V424-210	Black Cap, PTFE/Silicone	100/pk	\$28.53	1000/cs	\$285.33
V424-216	Royal Blue Cap, PTFE/Silicone	100/pk	\$25.21	1000/cs	\$252.15
V424-211	Green Cap, PTFE/Silicone	100/pk	\$21.40	1000/cs	\$214.00
V424-212	Natural Cap, PTFE/Silicone	100/pk	\$28.53	1000/cs	\$285.33
V424-215	Red Cap, PTFE/Silicone	100/pk	\$25.27	1000/cs	\$252.26
V424-217	Yellow Cap, PTFE/Silicone	100/pk	\$25.27	1000/cs	\$252.26
V425-238	Royal Blue Cap, PTFE/Silicone with Cross Slit	100/pk	\$40.33	1000/cs	\$403.33
V424-228	Black Cap, PTFE/Silicone/PTFE	100/pk	\$44.00	1000/cs	\$440.00
V424-234	Royal Blue Cap, PTFE/Silicone/PTFE	100/pk	\$45.66	1000/cs	\$456.55
V424-229	Green Cap, PTFE/Silicone/PTFE	100/pk	\$33.98	1000/cs	\$339.84
V424-230	Natural Cap, PTFE/Silicone/PTFE	100/pk	\$45.66	1000/cs	\$456.55
V424-233	Red Cap, PTFE/Silicone/PTFE	100/pk	\$33.98	1000/cs	\$339.84
V424-235	Yellow Cap, PTFE/Silicone/PTFE	100/pk	\$33.98	1000/cs	\$339.79
V424-236	Black Cap, PTFE/Silicone with Slit	100/pk	\$41.84	1000/cs	\$418.49
V424-242	Royal Blue Cap, PTFE/Silicone with Slit	100/pk	\$41.84	1000/cs	\$418.49
V424-237	Green Cap, PTFE/Silicone with Slit	100/pk	\$21.17	1000/cs	\$211.67
V424-238	Natural Cap, PTFE/Silicone with Slit	100/pk	\$40.33	1000/cs	\$403.33
V424-241	Red Cap, PTFE/Silicone with Slit	100/pk	\$31.17	1000/cs	\$311.67
V424-243	Yellow Cap, PTFE/Silicone with Slit	100/pk	\$40.33	1000/cs	\$403.33
V425-244	Black Cap, Black Viton	100/pk	\$76.80	1000/cs	\$768.00

Septa for Screw Thread Closures



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-359	9mm x 0.010" White PTFE Septa	100/pk	\$5.00	1000/cs	\$50.00
V424-367	9mm x 0.040" PTFE/Red Rubber Septa	100/pk	\$17.34	1000/cs	\$173.40
V424-368	9mm x 0.040" PTFE/Butyl Rubber Septa	100/pk	\$18.73	1000/cs	\$187.33
V424-373	9mm x 0.040" PTFE/Silicone Septa	100/pk	\$25.18	1000/cs	\$251.86
V424-375	9mm x 0.040" Red PTFE/Silicone/Red PTFE Septa	100/pk	\$32.95	1000/cs	\$329.47
V424-378	9mm x 0.040" PTFE/Silicone with Slit Septa	100/pk	\$49.46	1000/cs	\$494.58

Screw Thread Closures, 8-425mm Cap Size

Available in a wide assortment of colors. Designed for use with all autosamplers. The Top Seal™ closure with a 10mil molded septa allows for easy needle penetration and is inert to most solvents. The one piece design saves time by eliminating the process of assembling liners in the closures.



Polypropylene

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-122	Black, Large Open-Hole for Shimadzu	100/pk	\$5.97	1000/cs	\$59.73
V424-123	Blue, Large Open-Hole	100/pk	\$6.70	1000/cs	\$67.00
V424-124	Green, Large Open-Hole	100/pk	\$6.96	1000/cs	\$69.63
V424-125	Red, Large Open-Hole	100/pk	\$6.96	1000/cs	\$69.63
V424-126	White, Large Open-Hole	100/pk	\$6.96	1000/cs	\$69.63
V424-127	Yellow, Large Open-Hole	100/pk	\$6.70	1000/cs	\$67.00
V424-128	Black, Large Open-Hole	100/pk	\$7.99	1000/cs	\$79.91
V424-129	White, Large Open Hole Cap	100/pk	\$7.90	1000/cs	\$79.00
V424-168	Solid Top, Black, Unlined	100/pk	\$6.35	1000/cs	\$63.54
V425-195	Solid Top, White, Unlined	100/pk	\$7.33	1000/cs	\$73.33
V424-178	Top Seal™, Clear, Molded 10mil Septa	100/pk	\$9.13	1000/cs	\$91.33
V424-179	Top Seal™, White, Molded 10mil Septa	100/pk	\$9.90	1000/cs	\$99.00
V425-208	Top Seal™ Closure, Clear PP, Molded 10mil Septa	100/pk	\$12.37	1000/cs	\$123.66
V425-209	Top Seal™ Closure, Clear, 10mil Starburst Septa	100/pk	\$10.60	1000/cs	\$106.00
V424-188	Solid Top, Black, PTFE/F217 Lined	100/pk	\$21.77	1000/cs	\$217.67
V425-221	Solid Top, Green Thermoset, PTFE/F217 Lined	100/pk	\$43.00	1000/cs	\$430.00

Septa for Screw Thread Closures, 8-425mm

Various 8mm septa are available, suitable for a variety of applications.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-358	8mm x 0.010" White PTFE Septa	100/pk	\$3.14	1000/cs	\$31.38
V424-363	8mm x 0.010" White PTFE Septa w/Slit	100/pk	\$16.33	1000/cs	\$163.33
V425-252	8mm x 0.030" Black Viton® Septa	100/pk	\$49.93	1000/cs	\$499.33
V424-364	8mm x 0.035" Red PTFE/Silicone w/Slit Septa	100/pk	\$43.73	1000/cs	\$137.33
V424-365	8mm x 0.045" PTFE/Red Rubber Septa	100/pk	\$16.70	1000/cs	\$167.00
V424-366	8mm x 0.045" PTFE/Butyl Rubber Septa	100/pk	\$16.20	1000/cs	\$162.00
V424-374	8mm x 0.040" Red PTFE/Silicone/Red PTFE Septa	100/pk	\$31.00	1000/cs	\$310.06
V424-380	8mm x 0.040" Red PTFE/Silicone/Red PTFE w/Slit Septa	100/pk	\$48.36	1000/cs	\$483.66
V424-381	8mm x 0.045" Red PTFE/Silicone Septa	100/pk	\$17.65	1000/cs	\$176.53
V425-254	8mm x 0.050" Red PTFE/White Silicone Septa	100/pk	\$18.60	1000/cs	\$186.00
V424-390	8mm x 0.060" Red PTFE/Silicone w/Slit Septa	100/pk	\$45.70	1000/cs	\$457.00
V424-393	8mm x 0.065" Red PTFE/Silicone Septa	100/pk	\$13.07	1000/cs	\$130.68
V424-394	8mm x 0.065" Blue PTFE/Silicone Septa	100/pk	\$27.39	1000/cs	\$273.92
V424-395	8mm x 0.065" Tan PTFE/Silicone Septa	100/pk	\$16.43	1000/cs	\$164.35

Check out our Chromatography Syringes
on pages 44-50.

Preassembled Closure and Septa

Choose the preassembled caps with septa best suited for your application. The patented Top Hat™ septa and closure was designed to provide a positive physical lock to assure that preassembled components arrive intact.



Part No.	Description	Qty	List
V424-489	Black, PTFE/Red Rubber Septa, 0.040"	100/pk	\$29.68
V424-490	Black Flangeless, PTFE/Red Rubber Septa, 0.040"	100/pk	\$44.77
V424-492	Black, PTFE/Silicone/PTFE Septa, 0.040"	100/pk	\$47.55
V424-493	Black Flangeless, PTFE/Silicone/PTFE Septa, 0.040"	100/pk	\$35.31
V425-266	Black, Bonded Red PTFE/Silicone Septa, 0.040"	100/pk	\$49.07
V425-267	Black, Bonded Red PTFE/Silicone Septa, 0.040" with Slit	100/pk	\$52.70
V424-499	Black, PTFE/Silicone Septa, 0.050"	100/pk	\$30.07
V424-500	White, PTFE/Silicone Septa, 0.050"	100/pk	\$38.81
V424-503	Black, Red PTFE/Silicone/PTFE Septa, 0.060" with Slit	100/pk	\$58.97
V424-504	Black Flangeless, Red PTFE/Silicone/PTFE Septa, 0.060" with Slit	100/pk	\$56.73
V424-509	Black, PTFE/Silicone Septa, 0.065"	100/pk	\$37.09
V424-510	Black Flangeless, PTFE/Silicone Septa, 0.065"	100/pk	\$38.80
V424-514	Black Top Hat™ PTFE/Silicone Septa/Closure (Patented)	100/pk	\$34.24
V425-281	Blue Top Hat™ PTFE/Silicone Septa/Closure (Patented)	100/pk	\$46.90
V424-515	Yellow Top Hat™ PTFE/Silicone Septa/Closure (Patented)	100/pk	\$35.66

Screw Thread Convenience Packs

Preassembled Convenience Packs with Closures/Septa

Components packaged in a clear tray that fits into bench drawer for easy access. Packaging keeps products visible and particle free.

Preassembled packs come ready to use. Closures and septa of your choice are attached to the vials.



Amber Vial

Part No.	Description	Qty	List
V424-451	PTFE, 0.010"	100/pk	\$61.33
V424-459	PTFE/Red Rubber, 0.040"	100/pk	\$74.33
V424-465	Red PTFE/Silicone/PTFE, 0.040"	100/pk	\$95.90
V424-474	PTFE/Silicone, 0.065"	100/pk	\$75.00

Clear Vial

Part No.	Description	Qty	List
V424-450	PTFE, 0.010"	100/pk	\$57.00
V424-458	PTFE/Red Rubber, 0.040"	100/pk	\$69.00
V424-464	Red PTFE/Silicone/PTFE, 0.040"	100/pk	\$94.13
V424-473	PTFE/Silicone, 0.065"	100/pk	\$72.66

Big Mouth Screw Thread Convenience Kits

Components packaged in a clear lid tray with 100 vials and 100 preassembled closures and septa that fits into bench drawer for easy access. Packaging keeps products visible and particle free. Convenience Packs come ready to use.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-316	Clear Vial, Black Closure, Red PTFE/Silicone, 0.065"	100/pk	\$65.03	1000/cs	\$650.33

15x45mm WISP Style Screw Thread Vials

Components packaged in a tray that fits into bench drawer for easy access. Packaging keeps products visible and particle free.

Preassembled packs come ready to use. Closures and septa of your choice are attached to the vials.

Style: 13-425 Finish Screw Cap

Glass: Clear



Part No.	Description /Septa	Qty	List
V424-452	PTFE 0.010"	100/pk	\$49.46
V424-469	PTFE / Silicone 0.060"	100/pk	\$60.30



Preassembled R.A.M.™ Vials & Screw Thread/Septa Closure Kits



Amber R.A.M.™ Vial

Part No.	Description	Qty	List
V425-268	0.040" PTFE/Butyl Rubber Septa, Ribbed Royal Blue Cap	100/pk	\$73.66

Clear R.A.M.™ Vial

Part No.	Description	Qty	List
V424-524	w/Grad. Spot, 0.040" PTFE/Butyl Rubber Septa, Smooth Royal Blue Cap	100/pk	\$77.04
V424-535	PTFE/Silicone Septa, Smooth Black Cap	100/pk	\$71.66

R.A.M.™ Vials & Screw Thread/Septa Closure Kits



Amber R.A.M.™ Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-308	w/Grad. Spot, Smooth Black Cap, PTFE/Silicone	100/pk	\$79.97	1000/cs	\$799.70
V425-345	w/Grad. Spot, Smooth Royal Blue Cap, PTFE/Silicone	100/pk	\$59.89	1000/cs	\$598.98

Clear R.A.M.™ Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-309	Smooth Black Cap, PTFE/Silicone	100/pk	\$49.86	1000/cs	\$498.66
V425-310	Smooth Natural Cap, PTFE/Silicone	100/pk	\$49.86	1000/cs	\$498.66
V425-311	Smooth Royal Blue Cap, PTFE/Silicone	100/pk	\$54.71	1000/cs	\$547.07
V425-307	w/Grad. Spot, Smooth Black Cap, PTFE/Silicone	100/pk	\$76.09	1000/cs	\$760.90
V425-312	Smooth Black Cap, PTFE/Silicone/PTFE	100/pk	\$65.87	1000/cs	\$658.66
V424-778	Smooth Black Cap, PTFE/Silicone w/Slit	100/pk	\$74.93	1000/cs	\$749.28
V425-315	w/Grad. Spot, Smooth Black Cap, PTFE/Silicone w/Slit	100/pk	\$76.80	1000/cs	\$768.00

Preassembled Convenience Packs

Components packaged in a clear tray that fit into bench drawer for easy access. Packaging keeps products visible and particle free. Preassembled packs come ready to use. Closures and septa, of your choice, are attached to the vials.



Amber Vial

Part No.	Description	Qty	List
V424-448	Closure, PTFE Septa, 0.010"	100/pk	\$52.00
V424-455	Closure, PTFE/Red Rubber Septa, 0.040"	100/pk	\$67.33
V424-461	Closure, Red PTFE/Silicone/Red PTFE Septa, 0.040"	100/pk	\$93.00
V424-467	Closure, Red PTFE/Silicone Septa, 0.045"	100/pk	\$68.48
V424-472	Closure, Red PTFE/Silicone Septa, 0.065"	100/pk	\$72.00

Clear Vial

Part No.	Description	Qty	List
V424-448	Closure, PTFE Septa, 0.010"	100/pk	\$49.07
V424-454	Closure, PTFE/Red Rubber Septa, 0.040"	100/pk	\$62.00
V424-460	Closure, Red PTFE/Silicone/Red PTFE Septa, 0.040"	100/pk	\$78.00
V424-466	Closure, Red PTFE/Silicone Septa, 0.045"	100/pk	\$62.74
V424-471	Closure, Red PTFE/Silicone Septa, 0.065"	100/pk	\$67.00

Standard Screw Thread Convenience Packs

Components packaged in a clear lid tray with 100 vials and 100 preassembled closures and septa that fits into bench drawer for easy access. Packaging keeps products visible and particle free. Convenience Packs come ready to use.

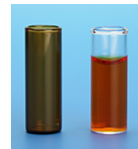


Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-779	Clear Vial, Closure, Red PTFE/SIL, 0.065"	100/pk	\$73.12	1000/cs	\$731.25
V425-299	Amber Vial, Closure, Red PTFE/SIL, 0.065"	100/pk	\$65.10	1000/cs	\$651.00

Shell Vials

Glass Shell Vials

Available in clear or amber Type I borosilicate glass for easy disposal. Vials feature thicker walls for safer sample handling. Limited volume shell vials have a precisely designed conical bottom which permits maximum sample evacuation.



Amber Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-314	2.0mL Amber Glass Shell Vial	100/pk	\$17.17	1000/cs	\$171.66

Clear Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V402-001	2.0mL Clear Glass Shell Vial	100/pk	\$24.81	1000/cs	\$248.13

Glass Shell Vials - 15x45mm, 15mm Plug

Available in clear or amber Type I borosilicate glass for easy disposal. Vials feature thicker walls for safer sample handling. Limited volume shell vials have a precisely designed conical bottom which permits maximum sample evacuation.



Amber Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-321	4.0mL	100/pk	\$18.26	1000/cs	\$182.66

Clear Vial

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-320	4.0mL	100/pk	\$14.96	1000/cs	\$149.61

Polypropylene Shell Vials - 15x45mm, 15mm Plug

Available in clear or amber polypropylene for easy disposal. Vials feature thicker walls for safer sample handling. Limited volume shell vials have a precisely designed conical bottom which permits maximum sample evacuation.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-322	4.0mL	100/pk	\$19.67	1000/cs	\$196.68
V200-323	3.0mL	100/pk	\$23.83	1000/cs	\$238.33

Shell Vial Closures

Polyethylene Flat Top Snap Plug (12mm)

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-309	12mm Flat Top Snap Plug	100/pk	\$11.03	1000/cs	\$110.33



Polyethylene Conical Snap Plugs with Starburst (12mm)

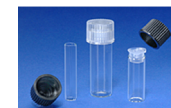
Starburst and conical design of the snap plug provides self-centering needle penetration guidance as well as better resealability of plug after use. Plug is designed to easily push in and remove from the vial. Tight fit offers good sealability.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-323	12mm Polyethylene Conical Snap Plug	100/pk	\$12.13	1000/cs	\$121.33
V424-324	12mm Blue Polyethylene Conical Snap Plug	100/pk	\$13.43	1000/cs	\$134.33
V424-325	12mm Green Polyethylene Conical Snap Plug	100/pk	\$13.43	1000/cs	\$134.33
V424-780	12mm Red Polyethylene Conical Snap Plug	100/pk	\$13.43	1000/cs	\$134.33
V424-326	12mm Yellow Polyethylene Conical Snap Plug	100/pk	\$13.43	1000/cs	\$134.33

Multi-Plugs with Safety Sleeve

The Multi-Plug Safety Sleeve is available in clear K-resin or black glass reinforced polypropylene. Use it as a tool to make plug and shell vial assembly easier and safer. The safety sleeve is "Multi" useful because it is designed to work with 1mL, 2mL or 4mL shell vials. One Safety Sleeve works with all three sizes.



Part No.	Description	Qty	List
V200-324	Multi-Plug Safety Sleeve Clear	5/cs	\$38.76
V200-325	Multi-Plug Safety Sleeve Black	5/cs	\$38.76



Polyethylene Flat Top Snap Plugs (15mm)



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V242-310	15mm Clear Flat Top Snap Plug	100/pk	\$15.78	1000/cs	\$157.88

Polyethylene Conical Snap Plugs with Starburst (15mm)

Starburst and conical design of the snap plug centering needle penetration guidance as well as better resealability of plug after use. Plug is designed to easily push in and remove from the vial. Tight fit offers good sealability.

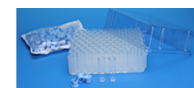


Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-327	15mm Clear Polyethylene Conical Snap Plug	100/pk	\$13.85	1000/cs	\$138.50

Shell Vial Convenience Packs

Convenience Packs with 12x32mm Shell Vials and 12mm Conical Snap Plugs

Components packaged in a clear tray with 100 shell vials and 100 conical snap plugs. Snap Plugs are not attached to the vials and are in individual plastic bags. Fits into bench drawer for easy access and packaging keeps products visible and particle free.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-579	2mL Clear Shell Vial & Plug	100/pk	\$22.68	1000/cs	\$226.80
V424-580	2mL Amber Shell Vial & Plug	100/pk	\$34.40	1000/cs	\$344.00
V424-581	2mL Polypropylene Shell Vial & Plug	100/pk	\$32.36	1000/cs	\$323.66
V424-582	1.5mL Polypropylene Shell Vial & Plug	100/pk	\$38.83	1000/cs	\$388.33

Convenience Packs with 15x45mm Shell Vials and 15mm Conical Snap Plugs

Components packaged in a clear tray with 100 shell vials and 100 conical snap plugs. Snap Plugs are not attached to the vials and are in individual plastic bags. Fits into bench drawer for easy access and packaging keeps products visible and particle free.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-583	4mL Clear Shell Vial & Plug	100/pk	\$33.09	1000/cs	\$330.48
V424-584	4mL Amber Shell Vial & Plug	100/pk	\$35.86	1000/cs	\$358.66
V424-585	4mL Polypropylene Shell Vial & Plug	100/pk	\$34.67	1000/cs	\$346.66
V424-586	3mL Polypropylene Shell Vial & Plug	100/pk	\$55.00	1000/cs	\$550.00

TOC Vials

TOC Certified Vials

24-414mm Open Top Gray Polypropylene Closure

Part No.	Description	Qty	List
V424-755	40mL Clear Vial, .125" PTFE/Sil Septa	72/pk	\$493.06



TOC Applications:

USP Method 643
 Testing of pharmaceutical grade waters
 Water for Injection (WFI)
 High Purity Water (HPW)
 Cleaning Validation Testing/Samples
 Testing Pre and Post-cleaning efficiency
 Traceability as associated with "Good Manufacturing Practices" (GMP)
 TOC calibration, validation and system suitability
 Calibration Standard(s) storage

Other TOC Vial options available.
 Contact us for more information.

VOA Vials**20mL Vials, Standard**

(Standard) Containers are assembled with liner and closure, without washing treatment.

White Polypropylene 24-414mm Open Top Closure

Part No.	Description	Qty	List
V424-647	20mL Clear, 0.100" PTFE/Silicone Septa	72/pk	\$112.70
V424-648	20mL Amber, 0.100" PTFE/Silicone Septa	72/pk	\$136.63
V424-645	20mL Clear, 0.125" PTFE/Silicone Septa	72/pk	\$119.38
V424-646	20mL Amber, 0.125" PTFE/Silicone Septa	72/pk	\$136.63

40mL Environmental VOA Vials**Amber Vial**

Part No.	Description	Qty	List
V424-773	Amber Vial, 28x95mm, 24-400mm Thread	100/cs	\$113.06
V200-172	Amber Vial, 28x95mm, 24-400mm Thread	144/cs	\$78.07

Clear Vial

Part No.	Description	Qty	List
V424-769	Clear Vial, 28x95mm, 24-400mm Thread	100/cs	\$89.03
V200-171	Clear Vial, 28x95mm, 24-400mm Thread	144/cs	\$61.35

**40mL Clear VOA Vial**

VOA Vials are most commonly used for volatile organic compound analysis. These vials are Type 1 Borosilicate glass available in clear and amber. These are precleaned with label.

Part No.	Description	Qty	List
B171-142	40mL Clear Vial, Green Cap & 24-414 PTFE Septa	100/cs	\$111.72

**VOA Vials**

VOA Vials are most commonly used for Volatile Organic Compound Analysis. These vials are Type 1 Borosilicate glass available in clear and amber. Vials come with a choice of 1pc. 24-414 white cap and sonically bonded septum or 2pc. 0.125" Teflon/Silicon septum press fitted into 24-414 white hole closure. 40mL.

Part No.	Description	Qty	List
B171-105	40mL, Clear Preserved 0.5mL 1:1 HCL	80/cs	\$110.95
B171-205	40mL, Clear Preserved 1mL 1:1 HCL	80/cs	\$106.00

**60mL Environmental VOA Vials****Amber Vial**

Part No.	Description	Qty	List
V424-774	Amber Vial, 27x140mm, 24-400mm Thread	100/cs	\$148.43
V424-766	Amber Vial, 27x140mm, 24-400mm Thread	144/cs	\$172.33

Clear Vial

Part No.	Description	Qty	List
V424-770	Clear Vial, 27x140mm, 24-400mm Thread	100/cs	\$108.20
V424-765	Clear Vial, 27x140mm, 24-400mm Thread	144/cs	\$129.36



Standard VOA Vials: Containers are assembled with liner and closure, without washing treatment.

Pre-Cleaned VOA Vials: Containers are processed according to E.P.A. recommended wash procedures - Washed with laboratory-grade biodegradable, non-phosphate detergent; rinsed with ASTM Type I De-ionized water; oven dried and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a copy of wash "Standard Operating Procedure".

Pre-Cleaned/Certified VOA Vials: Containers are processed according to E.P.A. recommended wash procedures - Washed with laboratory-grade biodegradable, non-phosphate detergent; rinsed with ASTM Type I De-ionized water; oven dried and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a "Certificate of Analysis". An independent laboratory is used to certify the container's cleanliness, assuring impartial results.



VOA Vial Solid Top

Generally used for volatile organic compound analysis and sample storage, these 20mL, 40mL and 60mL VOA vials are available in clear or amber borosilicate glass with a PTFE-lined Solid Top Closure. The assembled vials are available Standard (QC inspected), Precleaned or Precleaned/Certified in accordance with recommended E.P.A. protocol.



PP/PTFE Lined 24-400mm Solid Top Closure

Part No.	Description	Qty	List
V424-649	20mL; Clear	72/cs	\$85.46

0.125" PTFE/Silicone Septa 24-414mm Open Top Closure

Part No.	Description	Qty	List
V424-687	40mL; Clear White	100/cs	\$161.80
V424-685	40mL; Clear White	72/cs	\$89.03

0.125" PTFE/Silicone Septa- Precleaned 24-414 Open Top Closure

Part No.	Description	Qty	List
V424-699	40mL; Clear White	72/cs	\$96.15

Containers are processed according to E.P.A. recommended wash procedures - Washed with laboratory-grade biodegradable, non-phosphate detergent; rinsed with ASTM Type I De-ionized water; oven dried and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a "Certificate of Analysis". An independent laboratory is used to certify the container's cleanliness, assuring impartial results.

Closure: 24-400mm Solid top White PP / PTFE Lined

Part No.	Description	Qty	List
V424-751	60mL, Clear	72/cs	\$131.25
V424-746	60mL, Amber	100/cs	\$156.10

VOA Closures

Closures for Environmental VOA Vials

Polypropylene Open Hole Closure

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-160	24-400mm White	100/pk	\$11.56	1000/cs	\$115.66
V424-166	24-414mm White	100/pk	\$11.82	1000/cs	\$118.21
V424-184	24-400mm Black, Glass Filled	100/pk	\$14.27	1000/cs	\$142.66

Polypropylene Solid Top Closure

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V424-176	24-400mm, Black	100/pk	\$9.68	1000/cs	\$106.00



Lined Closures for Environmental VOA Vials

Polypropylene Solid Top Closure

Part No.	Description	Qty	List
C560-046	24-400mm, White, PTFE Lined	100/pk	\$38.16
C560-047	24-400mm, White, PTFE Lined	144/pk	\$43.70
C560-062	24-400mm, White, F217 Lined	100/pk	\$30.36
C560-063	24-400mm, White, F217 Lined	144/pk	\$37.80

Black 24-400mm

Part No.	Description	Qty	List
C560-037	Phenolic Solid Top Closure, PE Cone	100/pk	\$59.73
C560-006	Open Top Closure, .0125" Top Hat™ PTFE/Silicone Lined	100/pk	\$82.37



Septum for Environmental VOA Vial Closures

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
C560-007	24mm x 0.015" PTFE	n/a	n/a	100/cs	\$22.20
V424-404	24mm x 0.100" PTFE/Silicone	100/pk	\$55.74	1000/cs	\$557.35
V424-406	24mm x 0.125" PTFE/Silicone	100/pk	\$57.07	1000/cs	\$570.67



VIAL ACCESSORIES**Big Mouth Crimp Top Inserts****Conical Glass Limited Volume Inserts**

Inserts are available preassembled with a polymer bottom spring or patented Top Spring™. The polymer spring acts as a shock absorber that protects against breakage if the needle bottoms out. The conical design permits complete sample removal.



Part No.	Description	Qty/cs	List/cs
V200-255	100µL, Precision-Formed Mandrel, with Patented Top Spring™	100/cs	\$133.16

Big Mouth Precision-Formed Mandrel

Part No.	Description	Qty/cs	List/cs
V200-242	50µL, with Bottom Spring	100/cs	\$63.24
V200-273	250µL, No Spring	100/cs	\$66.72
V200-274	250µL, No Spring, Silanized	100/cs	\$148.37
V200-275	250µL, with Bottom Spring	100/cs	\$112.23
V200-276	250µL, with Bottom Spring, Silanized	100/cs	\$149.26
V200-279	250µL, with Glass Flange	100/cs	\$98.92

Big Mouth Pulled Point Interior

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-097	250µL, with Bottom Spring	100/pk	\$63.77	1000/cs	\$637.69
V425-098	250µL, No Spring	100/pk	\$22.34	1000/cs	\$223.45

Conical Polypropylene Limited Volume Inserts

Inserts are available preassembled with a polymer bottom spring or patented Top Spring™. The polymer spring acts as a shock absorber that protects against breakage if the needle bottoms out. The conical design permits complete sample removal.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-253	100µL, Precision-Formed Interior, w/Patented Top Spring™	100/pk	\$24.73	1000/cs	\$247.30

Big Mouth Precision-Formed Interior

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-283	250µL, No Spring	100/pk	\$13.32	1000/cs	\$133.20
V425-100	250µL, No Spring	100/pk	\$12.93	1000/cs	\$129.33
V200-284	250µL, with Bottom Spring	100/pk	\$32.55	1000/cs	\$325.50
V425-138	250µL, Black, with Bottom Spring	100/pk	\$25.50	1000/cs	\$255.00
V200-285	250µL, w/Plastic Flange for Step Vial	100/pk	\$15.56	1000/cs	\$155.66

Flat Bottom Glass and Polypropylene Inserts

Flat Bottom Inserts are an economical alternative to the conical limited volume inserts. Designed for use in 2mL large opening crimp top and screw thread vials. Available with ID ring, at the top of the insert, for easy open-end identification. Flat Bottom Inserts are available silanized or pre-cleaned.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-295	350µL Glass Insert	100/pk	\$17.50	1000/cs	\$175.00
V200-297	350µL Glass Insert with ID Ring	100/pk	\$20.47	1000/cs	\$204.66
V200-299	350µL Glass Insert	100/pk	\$17.50	1000/cs	\$175.00
V200-300	350µL Glass Insert, Silanized	100/pk	\$63.57	1000/cs	\$635.66
V200-301	350µL Glass Insert with ID Ring	100/pk	\$20.93	1000/cs	\$209.25
V200-302	350µL Glass Insert with ID Ring, Silanized	100/pk	\$66.93	1000/cs	\$669.33
V200-303	350µL Polypropylene Insert	100/pk	\$18.00	1000/cs	\$180.00

VOA Vials are available in 20mL, 40mL & 60mL. With open top closures and septums. Open top closures and septa and solid top closures. They are also available in standard, pre-cleaned and pre-cleaned/certified.



Standard Opening Screw Thread & Crimp Top Inserts

Glass Conical Limited Volume Inserts

Inserts are available preassembled with a polymer bottom spring or patented Top Spring™. The polymer spring acts as a shock absorber that protects against breakage if the needle bottoms out. The conical design permits complete sample removal. Limited volume inserts are available silanized or precleaned.



Precision-Formed Mandrel Interior

Part No.	Description	Qty	List
V200-240	50µL, with Bottom Spring	100/cs	\$83.32
V200-244	100µL, No Spring	100/cs	\$55.33
V200-248	100µL, with Bottom Spring	100/cs	\$48.92
V200-246	100µL, No Spring	100/cs	\$62.70
V200-256	150µL, with Bottom Spring	100/cs	\$53.96

Pulled Point Interior

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-101	200µL, Pulled Point Interior, No Spring	100/pk	\$30.60	1000/pk	\$306.00

Conical Polypropylene Limited Volume Inserts

Inserts are available preassembled with a polymer bottom spring or patented Top Spring™. The polymer spring acts as a shock absorber that protects against breakage if the needle bottoms out. The conical design permits complete sample removal. Limited volume inserts are available silanized or precleaned. Precision-formed interior.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-095	100µL Clear, No Spring	100/pk	\$10.30	1000/cs	\$103.00
V425-096	100µL Clear, w/Bottom Spring	100/pk	\$34.87	1000/cs	\$348.66
V200-251	100µL, No Spring	100/pk	\$8.61	1000/cs	\$86.07
V200-252	100µL, w/Bottom Spring	100/pk	\$28.08	1000/cs	\$280.77

Flat Bottom Glass and Polypropylene Inserts

Flat Bottom Inserts are an economical alternative to the conical limited volume inserts. Designed for use in 2mL standard opening crimp top and screw thread vials. Available with ID ring, at the top of the insert, for easy open-end identification. Flat Bottom Inserts are available silanized or precleaned.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-264	250µL Glass Flat Bottom Insert	100/pk	\$15.48	1000/cs	\$154.85
V200-266	250µL Glass Flat Bottom Insert with ID Ring	100/pk	\$19.40	1000/cs	\$194.03
V200-268	250µL Polypropylene Flat Bottom Insert	100/pk	\$20.47	1000/cs	\$204.66

Limited Volume Inserts

Conical Glass Inserts

Due to the conical design of the snap plug, limited volume inserts used in the shell vial stay centered and straight allowing for easy sample evacuation.



Part No.	Description	Qty	List
V200-289	300µL Glass Insert w/Bottom Spring	100/pk	\$69.88

Conical Polypropylene Inserts

Due to the conical design of the snap plug, limited volume inserts used in the shell vial stay centered and straight allowing for easy sample evacuation.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-292	300µL w/Bottom Spring	100/pk	\$32.93	1000/cs	\$329.33

Shell Vial Inserts (12x32mm)

Conical Big Mouth Glass Limited Volume Inserts

Due to the conical design of the snap plug, limited volume inserts used in the shell vial stay centered and straight allowing for easy sample evacuation. Limited volume inserts are available silanized or precleaned.



Precision-Formed Mandrel Interior

Part No.	Description	Qty	List
V200-275	250µL, w/Bottom Spring	100/cs	\$112.23
V200-276	250µL, w/Bottom Spring, Silanized	100/cs	\$149.26

Pulled Point Interior

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V425-097	250µL, w/Bottom Spring	100/pk	\$63.77	1000/cs	\$637.69

Polypropylene Big Mouth Conical Limited Volume Insert

Due to the conical design of the snap plug, limited volume inserts used in the shell vial stay centered and straight allowing for easy sample evacuation.



Precision-Formed Mandrel Interior

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
V200-284	250µL, w/Bottom Spring	100/pk	\$32.55	1000/cs	\$325.50

Racks

Bottle and Vial Racks - No-Wire

Autoclavable, Sizes to Fit Most Small Vials and Bottles

Small enough to hold in one hand and enough choices to accommodate most vials and small bottles.

Offered in 5 grid configurations

Dimensions: 12.8 x 10.5 x 4.3cm H (5.08 x 4.15 x 1.70")

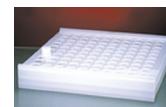
Polypropylene; autoclavable



Part No.	Holds	Hole Size / Places	Rows	Qty	List
R100-013	10-13mm vials, bottles	13.38mm / 42	6 x 7	1/ea	\$35.70
R100-014	13-16mm vials, bottles	16.38mm / 30	5 x 6	1/ea	\$34.43
R100-015	16-20mm vials, bottles	20.37mm / 20	4 x 5	1/ea	\$34.13
R100-016	20-25mm vials, bottles	25.40mm / 12	3 x 4	1/ea	\$34.13
R100-017	25-30mm vials, bottles	30.48mm / 6	2 x 3	1/ea	\$35.13

Scintillation Vial Rack PP - 27mm

Scintillation Vial rack is welded polypropylene rack holds the included 100 standard 20mL scintillation vials (M460-003). Rack is autoclavable and resists both nitric and hydrochloric acids. Hole diameter: 1 1/16"



Part No.	Description	Qty	List
M462-152	14.5 L x 15 W x 2.5"D	1/ea	\$292.03

Vial Caddy HDPE - 23mm

Heavy duty vial caddy protects up to 48 of the popular 23mm diameter glass vials.

Vial Rack is machined from a solid block of 1.25" HDPE sheet offering 360 degree protection during storage and transport.

Supplied with a snug fitting cover and non-skid feet.



Part No.	Description	Qty	List
C420-007	12 x 6 x 1.25"; Cover ID: 12 x 6 x 1.5"	1/ea	\$227.42

Scintillation Vial Rack

For Start to Finish Sample Preparation

This rugged and stable rack holds 24 scintillation vials (30mm diameter) for convenient storage, handling and sample preparation.

Corrosion-resistant, autoclavable polypropylene

Shelf height: 4.4cm



Part No.	Places	Dimensions (L x W x H)	Qty	List
R100-007	24	29.8 x 12.7 x 9.5cm	1/ea	\$60.75



Crimper

20mm Hand Operated Crimper or 20mm De-Crimper Head (Decapper)

Part No.	Description	Qty	List
C455-003	Crimper	1/ea	\$302.50
C455-060	Decrimper	1/ea	\$286.25

**WATCH GLASSES****Watch Glasses**

Concave clear annealed glass covers. Used to return condensation to beakers. Has fired-polished edges.
Shape: Concave Color: Clear



Part No.	Size	Qty	List
M900-088	1 in, 25mm	12/pk	\$94.33
M900-089	1.5 in, 40mm	12/pk	\$98.64
M900-090	2 in, 50mm	12/pk	\$93.66
M900-091	2.5 in, 60mm	12/pk	\$94.66
M900-092	3 in, 80mm	12/pk	\$107.00
M900-093	3.5 in, 90mm	12/pk	\$109.66
M900-094	4 in, 100mm	12/pk	\$118.00
M900-095	4.5 in, 110mm	12/pk	\$122.00
M900-096	5 in, 125mm	12/pk	\$135.00
M900-097	6 in, 150mm	12/pk	\$182.66
M900-098	7 in, 180mm	12/pk	\$207.66
M900-099	8 in, 200mm	12/pk	\$256.66

Watch Glasses

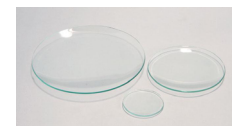
Made from soda lime glass (1.8mm thick), fine ground and flame polished edges.



Part No.	Diameter	Qty	List
T660-722	40mm	10/pk	\$27.60
T660-723	50mm	10/pk	\$28.00
T660-724	60mm	10/pk	\$28.50
T660-725	70mm	10/pk	\$29.80
T660-726	80mm	10/pk	\$31.80
T660-727	90mm	10/pk	\$42.65
T660-718	100mm	10/pk	\$45.10
T660-719	125mm	10/pk	\$49.50
T660-720	150mm	10/pk	\$71.50
T660-721	200mm	10/pk	\$156.20

Watch Glasses, Economy

Made from clear flint glass (1.8 to 2.0mm thick), fine ground and polished edges.



Part No.	Diameter	Qty	List
T660-731	25mm	12/pk	\$9.20
T660-732	40mm	12/pk	\$10.45
T660-733	50mm	12/pk	\$13.05
T660-734	65mm	12/pk	\$17.22
T660-735	75mm	12/pk	\$10.93
T660-736	90mm	12/pk	\$15.89
T660-737	100mm	12/pk	\$17.90
T660-738	125mm	12/pk	\$22.32
T660-739	150mm	12/pk	\$59.40
T660-740	200mm	12/pk	\$66.85
T660-741	250mm	12/pk	\$200.00
T660-742	300mm	12/pk	\$317.10

TYPES / DEFINITIONS OF GLASSWARE

Borosilicate Glass: Type of glass with silica and boron trioxide as the main glass-forming constituents.

Quartz Glass: Fused quartz or fused silica is a glass consisting of silica in a non-crystalline form.

Fritted Glass: A finely porous glass which liquid or gas can pass.

Silanized Glass: Specially treated to prevent organic samples from sticking to the glass.

Class A: Class A—Each flask of precision grade shall be marked with the letter “A” to signify compliance with applicable construction and accuracy requirements. Flasks may be marked with an identification number (serial number) at the option of the manufacturer. **Class B:** General purpose work, calibrated to a lower level of accuracy

Class B: Class B—General purpose flasks are of the same basic design as Class A flasks. However, volumetric tolerances for Class B flasks shall be within twice the specified range allowed for Class A flasks. These flasks need not be marked with their class designation.

To Contain: Refers to the contained quantity of the liquid corresponds to the capacity printed on the graduation.

To Deliver: Refers to the delivered set volume of liquid to another vessel regardless of any drips or liquid which remains in the glassware after the run out.

Stock up on Laboratory Notebooks!

For recording research data, experimental procedures and design ideas, use these notebooks to keep information safe and well organized.

- Hardbound book with imitation leather cover and foil stamped title, Laboratory Notebook
- Numbered, acid-free, pages include spaces for title, project number, book number, date and witness signature
- Red ribbon marker for quick and easy access to your notes



- Lined notebooks feature college-ruled pages for easy report writing
- Covers for all versions are waterproof and chemical-resistant
- All notebooks contain periodic and conversion tables in the back
- Measures 218 x 281mm
- 12 per case

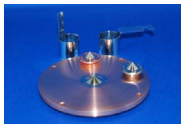
ICP & ICP-MS

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With such a wide selection of products from multiple manufacturers, not all options are listed here. If you do not see a product which meets the specifications you need, please feel free to contact us.

CONES



Part No.	Description	For	List
C805-647	Nickel Sampler	Agilent 4500 & 7500	CALL
C805-677	Nickel Skimmer	Agilent 4500 & 7500A	\$326.00
C805-681	Platinum Sampler 10mm Insert	Agilent 4500 & 7500	\$1684.00
C805-682	Platinum Sampler	Agilent 7500C	\$1194.00

****Skimmer and Sampler cones also available for LECO, MicroMass, NU, Sciex/PerkinElmer, Spectro, Thermo Finnigan, TJA and Thermo VG.**

INJECTORS

ARL 3400-3500 Accuris Mini Injector Alumina

Part No.	Description	Qty	List
C805-038	ARL 3400-3500	1/ea	\$227.00

ARL 3500 Maxi Alumina Injector

Part No.	Description	Qty	List
C805-048	ARL 3500	1/ea	\$48.00

Baird 27MHz, 2000, 2070, PST, PSQ & PSX Alumina Injectors

Part No.	Description	Qty	List
C805-110	Alumina 4.8"	1/ea	\$51.50
C805-111	Alumina 5.6"	1/ea	\$54.00
C805-112	Alumina 7.7"	1/ea	\$54.00

HP 4500 Injectors

Part No.	Description	Qty	List
C805-643	HP 4500 Injector Alumina	1/ea	\$50.00
C805-644	HP 4500 Injector Quartz	1/ea	\$39.00

PerkinElmer Quartz Injector 1.2mm

Quartz Injector, 1.2mm, for PerkinElmer Plasma 1000/2000, PerkinElmer Plasma II, PerkinElmer Plasma 40/400, PerkinElmer 5000/5500/6000/6500, PerkinElmer Optima 3X00 Radial, PerkinElmer/Sciex ELAN 250/500, PerkinElmer/Sciex ELAN 5000/6X00/9000

Part No.	Description	Qty	List
C805-270	PerkinElmer Quartz 1.2mm	1/ea	\$54.00

PerkinElmer Quartz Injector 1.6mm

Quartz Injector, 1.6mm, for PerkinElmer Plasma 1000/2000, PerkinElmer Plasma II, PerkinElmer Plasma 40/400, PerkinElmer 5000/5500/6000/6500, PerkinElmer/Sciex ELAN 250/500, PerkinElmer/Sciex ELAN 5000/6X00/9000

Part No.	Description	Qty	List
C805-271	PerkinElmer Quartz 1.6mm	1/ea	\$54.00



PerkinElmer Optima Injectors Quartz

Quartz Injectors for PerkinElmer Optima 3X00 XL/SC(X), PerkinElmer Optima 3X00 DV, PerkinElmer Optima 4300V/5300V/7300V

Part No.	Description	Qty	List
C805-276	Quartz 1.2mm	1/ea	\$62.00
C805-275	Quartz 1.6mm	1/ea	\$60.00

**PerkinElmer Optima Injectors 2.0mm**

Injector, 2.0mm, for PerkinElmer Optima 3X00 XL/SC(X), PerkinElmer Optima 3X00 DV

Part No.	Description	Qty	List
C805-274	Quartz 2.0mm	1/ea	\$60.00
C805-278	Alumina 2.0mm	1/ea	\$108.00

**PerkinElmer Injectors**

Injectors for PerkinElmer 2X00/4X00/5X00/7X00 DV

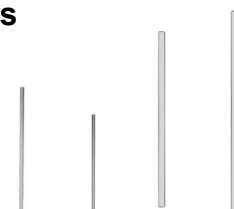
Part No.	Description	Qty	List
C805-295	Quartz 1.6mm	1/ea	\$80.00
C805-293	Quartz 2.0mm	1/ea	\$80.00
C805-247	Alumina 1.2mm	1/ea	\$148.00
C805-248	Alumina 2.0mm	1/ea	\$148.00

**Thermo Finnigan Injectors Quartz**

Part No.	Description	Qty	List
C805-612	TS Sola	1/ea	\$87.00
C805-626	Element	1/ea	\$212.00

**Varian 700ES, Liberty, Vista, Ultramass & Ultramass-700 Radial & Axial Injectors**

Part No.	Description	Qty	List
C805-600	Quartz 1.8mm	1/ea	\$85.00
C805-601	Quartz 0.8mm	1/ea	\$85.00
C805-602	Alumina 1.8mm	1/ea	\$75.00
C805-603	Alumina 2.5mm	1/ea	\$75.00

**NEBULIZERS**

For Agilent (Hewlett-Packard) 4500 & 7500, Agilent 700-ES Series, Liberty, Vista, Ultramass-700, Analytik Jena 800-MS, Baird 2000 & 2070, PST, PSQ, PSX, JY Instruments SA, Spectro Modula, CIROS, Genesis, ARCOS, Thermo Scientific VG PQ 1-3, Axiom, PQ ExCell & Teledyne Leeman

Part No.	Description	Qty	List
C805-373	C-Type Concentric Nebulizer 1lpm AR, 30psi, 1mL/min	1/ea	\$283.00



For Agilent (Hewlett Packard) 4500 & 7500, ARL 3500 Maxi, Spectro & Teledyne Leeman

Part No.	Description	Qty	List
C805-410	A-Type Concentric Nebulizer 1 lpm AR, 30psi, 3mL/min	1/ea	\$201.00

ICP & ICP-MS

For Agilent 700-ES Series, Liberty, Vista, ARL 3400/3500 Accuris Mini, PerkinElmer Plasma II, Plasma 40 & 400, PerkinElmer ICP 5000, 5500, 5500B, 6000 & 6500, Optima 3000 Series Radial, Optima 3000 Series XL & SC(X), 3000 Series DV, Optima 2X00/4X00/5X00/7X00 DV Series & 4300V/530V/7300V, Optima 8X00DV Series, Thermo Scientific TJA 61E, Iris Advantage Radial, Intrepid Radial, Intrepid II Radial, TJA 61E Trace, Iris AP, Intrepid, Intrepid II and Teledyne Leeman

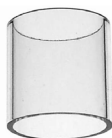
Part No.	Description	Qty	List
C805-414	K-Type Concentric Nebulizer 0.7 lpm Ar, 30psi, 3mL/min	1/ea	\$289.00



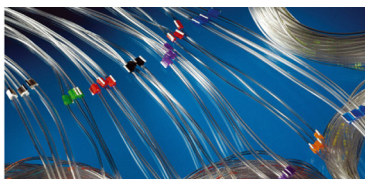
For Agilent (Varian) 700-ES Series, Liberty, Vista, Ultramass-700, Analytik Jena (Formerly Varian/ Bruker) 800-MS Series & Teledyne Leeman

Part No.	Description	Qty	List
C805-427	K-Type Concentric Nebulizer, High Flow 1L/min Argon, 2mL/min Sample Uptake	1/ea	\$295.00

PARTS & ACCESSORIES



Part No.	Description	For	Qty	List
C805-645	Quartz Bonnet	HP 4500	1/ea	\$75.00
C805-652	Ball & Socket Adapter	HP 4500	1/ea	\$71.00
C805-654	Connector Rod (Dilution)	Agilent 7700	1/ea	\$110.00
C805-648	PTFE Injection Holder	HP 4500	1/ea	\$71.00
C805-604	PTFE Injector Holder	Varian 700ES, Liberty, Vista, Ultramass	1/ea	\$75.00
C805-052	O-Ring for Torch	ARL 3500 Maxi, ARL 3400/3500 Mini, ARL Maxim 1 & 3	1/ea	\$310.00



Color-coded peristaltic pump tubing available.

2-Stop and 3-Stop pump tubing is available in PVC, SOLVA, Silicone, Santoprene and VITON.

Flared end pump tubing is available in 2-Stop and 3-Stop made from PVC or Solva.

The internal diameters measures can measure from 0.13mm to 3.18mm.

Contact us today to find the pump tubing to fit your needs.

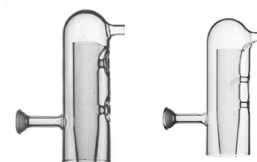


SPRAY CHAMBERS

For HP 4500 / Agilent 7500

Radial Scott style spray chamber w/ inner tube flush with outer tube, sample outlet is 180° from drain.

Part No.	Description	Qty	List
C805-636	Borosilicate	1/ea	\$201.00
C805-638	Quartz	1/ea	\$309.00



For Varian 700-ES Series, Liberty, Vista & Ultramass-700

Part No.	Description	Qty	List
C805-596	Cyclonic Spray Chamber 8mm Top, 4mm (pump) Drain	1/ea	\$195.00
C805-593	Sturman-Masters Spray Chamber, Water-Cooled (jacketed)	1/ea	\$567.00



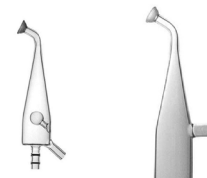
For Varian 800-MS Series

Part No.	Description	Qty	List
C805-586	Scott Style Spray Chamber	1/ea	\$309.00



For ARL 3500 Maxi

Part No.	Description	Qty	List
C805-010	Conical Spray Chamber for Concentric Nebulizer	1/ea	\$178.00
C805-013	Conical Spray Chamber Open End w/Drain	1/ea	\$106.00



For ARL 3400/3500

Part No.	Description	Qty	List
C805-026	Accuris Mini Conical Spray Chamber, Mini for Concentric Nebulizer	1/ea	\$200.00



For ARL 3500 Maxi/ ARL 3400/3500

Part No.	Description	Qty	List
C805-041	Accuris Mini Cyclonic Spray Chamber 10mm Drain	1/ea	\$200.00



For ARL Maxim 1 & 3

Part No.	Description	Qty	List
C805-032	Spray Chamber Water Cooled for Concentric Nebulizer	1/ea	\$439.00



For Baird 2000, 2070 & Baird PSQ , PSX and PST

Part No.	Description	Qty	List
C805-098	Scott Spray Chamber Open End	1/ea	\$133.90



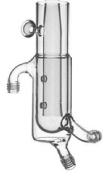
For Thermo Finnigan TS Sola

Part No.	Description	Qty	List
C805-618	Scott Spray Chamber Quartz, Water Cooled	1/ea	\$379.00



For Thermo Finnigan Element

Part No.	Description	Qty	List
C805-620	Scott Spray Chamber Quartz, Water Cooled	1/ea	\$546.00



For PerkinElmer Plastma 1000/2000, Plasma II, Plasma 40/400 & Optima 3X00 Radial

Part No.	Description	Qty	List
C805-195	Cyclonic Spray Chamber	1/ea	\$212.00



For PerkinElmer 5000/5500/6000/6500

Part No.	Description	Qty	List
C805-187	Scott Spray Chamber Open-End	1/ea	\$139.00
C805-189	Scott Spray Chamber for Concentric Nebulizer	1/ea	\$190.55



For PerkinElmer Optima 3X00 Radial

Part No.	Description	Qty	List
C805-190	Scott Spray Chamber Type II, Angled Top	1/ea	\$145.00



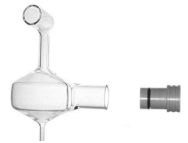
For PerkinElmer Optima 3X00 XL/SC & Optima 3X00 DV

Part No.	Description	Qty	List
C805-192	Cyclonic Spray Chamber 11.3mm Exit	1/ea	\$212.00



For PerkinElmer 2X00/4X00/5X00/7X00/8X00 DV

Part No.	Description	Qty	List
C805-207	Cyclonic Spray Chamber, No Baffle, w/ Nebulizer Adapter	1/ea	\$247.00



For PerkinElmer 2X00 4X00 5X00 7X00 DV

Part No.	Description	Qty	List
C805-209	Cyclonic Spray Chamber, Baffled, w/ Neb Adapter	1/ea	\$247.00



For PerkinElmer/SCIEX ELAN 5000/6X00/9000/DRC II

Part No.	Description	Qty	List
C805-310	PE / Sciex ELAN Spray Chamber – Scott	1/ea	\$216.00



STANDARDS

Call for Pricing

NSI Standards

1000 µg/mL 125mL

Part No.	Description
TM-001L	Aluminum-HNO ₃
TM-002L	Antimony-HNO ₃ / Tart Acid
TM-003L	Arsenic-HNO ₃
TM-004L	Barium-HNO ₃
TM-005L	Beryllium-HNO ₃
TM-028L	Boron-Water
TM-006L	Cadmium-HNO ₃
TM-024L	Calcium-HNO ₃
TM-007L	Chromium-HNO ₃
TM-008L	Cobalt-HNO ₃
TM-009L	Copper-HNO ₃
TM-010L	Iron-HNO ₃
TM-011L	Lead-HNO ₃
TM-048L	Lithium-HNO ₃
TM-026L	Magnesium-HNO ₃
TM-012L	Manganese-HNO ₃
TM-022L	Mercury-HNO ₃
TM-013L	Molybdenum Water / tr.-NH ₄ OH
TM-014L	Nickel-HNO ₃
TM-074L	Phosphorus-Water
TM-025L	Potassium-HNO ₃
TM-078L	Scandium-HNO ₃
TM-015L	Selenium-HNO ₃
TM-054L	Silicon-HNO ₃
TM-023L	Silver-HNO ₃
TM-027L	Sodium-Water-HNO ₃
TM-016L	Strontium-HNO ₃
TM-056L	Sulfur-Water-HNO ₃
TM-017L	Thallium-HNO ₃
TM-018L	Tin-HNO ₃
TM-019L	Titanium-HNO ₃
TM-020L	Vanadium-HNO ₃
TM-080L	Yttrium-HNO ₃
TM-021L	Zinc-HNO ₃

Ricca Standards

1000 µg/mL 100mL

Part No.	Description
PAL1KN	Aluminum-HNO ₃
PSB1KW	Antimony-HNO ₃ / Tart Acid
PAS1KN	Arsenic-HNO ₃
PBA1KN	Barium-HNO ₃
PBE1KN	Beryllium-HNO ₃
PB1KW	Boron-Water
PCD1KN	Cadmium-HNO ₃
PCA1KN	Calcium-HNO ₃
PCR1KN	Chromium-HNO ₃
PCO1KN	Cobalt-HNO ₃
PCU1KN	Copper-HNO ₃
PFE1KN	Iron-HNO ₃
PPB1KN	Lead-HNO ₃
PLI1KN	Lithium-HNO ₃
PMG1KN	Magnesium-HNO ₃
PMN1KN	Manganese-HNO ₃
PHG1KN	Mercury-HNO ₃
PMO1KW	Molybdenum Water / tr.-NH ₄ OH
PNI1KN	Nickel-HNO ₃
PP1KW	Phosphorus-Water
PK1KN	Potassium-HNO ₃
PSC1KN	Scandium-HNO ₃
PSE1KN	Selenium-HNO ₃
PSI1KN	Silicon-HNO ₃
PAG1KN	Silver-HNO ₃
PNA1KN	Sodium-Water-HNO ₃
PSR1KN	Strontium-HNO ₃
PS1KW	Sulfur-Water-HNO ₃
PTL1KN	Thallium-HNO ₃
PSN1KN	Tin-HNO ₃
PTI1KW	Titanium-HNO ₃
PV1KN	Vanadium-HNO ₃
PZN1KN	Zinc-HNO ₃

Other Standards and Options Available!

TORCHES

Agilent

Agilent 7500 One Piece HMI Compatible Torch

This is an exact match OEM replacement quartz torch suitable for the Agilent 7500 HMI (High Matrix Introduction) ICP-MS instrument and backwards compatible with all previous Agilent 7500 instruments. This torch has a fixed 2.5mm ID quartz injector and dual alignment knots.

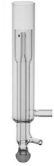
Injector: 2.5mm
Projections: 2



Part No.	Description	Qty	List
C805-627	Agilent 7500 One Piece HMI Compatible	1/ea	\$285.00

Agilent 7500 One Piece Torch

Quartz tapered torch for Agilent 7500 ICP-MS. For organic solvents, not suitable for samples containing hydrofluoric acid.
Injector: Fixed 1.5mm



Part No.	Description	Qty	List
C805-633	Agilent 7500 One Piece	1/ea	\$270.00

Agilent 7500 One Piece Torch

This is an exact match OEM replacement quartz torch suitable for all Agilent 7500 ICP-MS instruments except 7500HMI. This torch has a 2.5mm ID quartz injector, fixed and a single alignment knot.
Injector: 2.5mm



Part No.	Description	Qty	List
C805-632	Agilent 7500 One Piece	1/ea	\$270.00

HP

HP 7500 Demountable Inert Torch

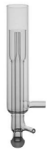
Quartz inert torch for Agilent 7500. Without injector for inert polypropylene sample introduction kit.



Part No.	Description	Qty	List
C805-635	HP 7500 Demountable Inert	1/ea	\$360.00

HP 4500, ETV One Piece Torch

Injector: 1.5mm



Part No.	Description	Qty	List
C805-630	HP 4500 , ETV One Piece	1/ea	\$258.00

HP 4500 One Piece Torch

Injector: 2.5mm



Part No.	Description	Qty	List
C805-631	HP 4500 One Piece	1/ea	\$258.00

HP 4500 Demountable Inert Torch



Part No.	Description	Qty	List
C805-634	HP 4500 Demountable Inert	1/ea	\$240.00



Varian

Varian 700-ES Series, Liberty & Vista Radial Torch

This is an exact match OEM replacement quartz torch suitable for all radial orientations of Varian ICP-OES instruments including: 730-ES and 720-ES series, 710-ES and 700-ES and Varian Liberty Series. This torch has a 1.5mm ID fixed quartz injector and terminates in a 8mm OD straight stem but is also available with a 12/5 ball joint (Part#: C805-579) or 12/5 socket (Part#: C805-580).

Injector: 1.5mm
Terminates: 8mm OD straight stem



Part No.	Description	Qty	List
C805-565	Agilent 700-ES Series, Liberty & Vista Radial	1/ea	\$248.00

Varian 700ES, Liberty, Vista Torch Demountable

Body only torch, radial.

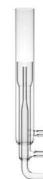
Part No.	Description	Qty	List
C805-585	Radial - Demountable	1/ea	\$262.00
C805-592	Axial - Demountable	1/ea	\$285.00



Varian 700ES, Liberty, Vista Axial Torch – One piece 90° Bend

This is an exact match OEM replacement quartz torch suitable for all axial orientations of Varian ICP-OES instruments including: 730-ES and 720-ES series, 710-ES and 700-ES and Varian Vista. This torch has a fixed 2.4mm ID quartz injector and terminates in a 8mm OD stem with a 90° bend but is also available with a 12/5 ball joint (Part#: C805-589) or 12/5 socket (Part#: C805-590).

Part No.	Description	Qty	List
C805-573	Varian 700ES, Liberty, Vista Axial – One piece 90° Bend	1/ea	\$282.00



Varian Ultramass Torches

Part No.	Description	Qty	List
C805-581	Varian Ultramass One Piece	1/ea	\$331.00
C805-588	Varian Ultramass Demountable	1/ea	\$307.00



Varian/Bruker 800-MS Series Torch

Part No.	Description	Qty	List
C805-587	Varian/Bruker 800-MS Series	1/ea	\$294.00



ARL

ARL 3500 Maxi Torch

This is an exact match OEM replacement quartz torch suitable for Thermo ARL 3500 Maxi ICP-OES instruments. This is a fixed injector torch with a 1.8mm bore injector and terminating in a 12/5 ball o-ring joint. It is also available in a Ware Metals version for organic analyses.

Part No.	Description	Qty	List
C804-997	ARL 3500 Maxi	1/ea	\$274.00



ARL 3400/3500 Accuris Mini Torch

This is an exact match OEM replacement quartz torch suitable for Thermo ARL 3400/3500 ICP-OES instruments. This is a fixed injector torch with a 1.5mm bore injector and terminating in a 12/5 ball o-ring joint. It is also available with a 1.0mm bore injector for organic analyses (Part#: C805-023) or as a demountable torch (Part#: C805-024) with alumina injector (Part#: C805-038) for HF/CR applications.

Part No.	Description	Qty	List
C805-022	ARL 3400/3500 Accuris Mini Torch	1/ea	\$351.00



ARL Maxim 1 & 3 Torch

Part No.	Description	Qty	List
C805-031	ARL Maxim 1 & 3 Torch	1/ea	\$568.00



Baird

Baird 27 MHz Torches

Part No.	Description	Qty	List
C805-091	Plasma	1/ea	\$245.00
C805-115	Demountable	1/ea	\$270.00



Baird 2000 & 2070, Baird PSQ & PSX, Baird PST Low Flow Torches

Part No.	Description	Qty	List
C805-092	Torch	1/ea	\$374.00
C805-096	Demountable Torch	1/ea	\$318.00



Baird AFS-2000 Torch and Tip

Part No.	Description	Qty	List
C805-108	Baird AFS-2000 Torch and Tip	1/ea	\$410.00



AFS/ICP Replacement Tips for Baird AFS-2000

Part No.	Description	Qty	List
C805-109	AFS/ICP Replacement Tips for Baird AFS-2000	1/ea	\$138.00



Thermo Finnigan

Thermo Finnigan TS Sola Torches

Part No.	Description	Qty	List
C805-609	Standard	1/ea	\$245.00
C805-611	Demountable	1/ea	\$257.00



Not seeing what you're looking for?
Other models and styles available
as well as custom options!



PerkinElmer

PerkinElmer Torch Tube – Type II & PerkinElmer Plasma II, Plasma 40 & 400

This is an exact match OEM replacement quartz torch for PerkinElmer Plasma 40 & 400 series ICP-OES instruments. This torch has 3 viewing slots and is also available in Ware Metal version torch for organic analyses. The torch does not include an injector or injector supports. Plastic injector support adapters and injectors of various sizes in both quartz and alumina are also available.

Part No.	Description	Qty	List
C805-214	PerkinElmer Torch Tube	1/ea	\$240.00

**PerkinElmer 5000 5500 6000 6500 Torch – One piece with ball joint**

Part No.	Description	Qty	List
C805-188	PerkinElmer 5000 5500 6000 6500 Torch – One piece with ball joint	1/ea	\$245.00

**PerkinElmer Optima 3X00 Radial Torch Body**

This is an exact match OEM replacement quartz torch for PerkinElmer Optima 3X00 Radial series ICP-OES instruments. This torch has a single viewing slot and is also available in a Ware Metals version for organics analysis. The torch does not include an injector or injector supports. Plastic injector support adapters and injectors of various sizes in both quartz and alumina are also available.

Part No.	Description	Qty	List
C805-217	PerkinElmer Optima 3X00 Radial Torch body	1/ea	\$233.00

**PerkinElmer Optima 3X00 XL/SC(X), Optima XL**

Part No.	Description	Qty	List
C805-222	PerkinElmer Optima 3X00 XL/SC(X), Optima XL	1/ea	\$246.00

**PerkinElmer Optima 3X00 DV Torch Body – 1 Slot**

This is an exact match OEM replacement quartz torch for PerkinElmer Optima 3X00 DV (Dual View) series ICP-OES instruments. This torch has a single viewing slot, but is also available in a 2 slot torch and 3 slot torch. The torch does not include an injector or injector supports. Plastic injector support adapters and injectors of various sizes in both quartz and alumina are also available.

Part No.	Description	Qty	List
C805-227	PerkinElmer Optima 3X00 DV Torch Body – 1 Slot	1/ea	\$189.00

**PerkinElmer 2X00 4X00 5X00 7X00 DV Torch Body 1 Slot**

This is an exact match OEM replacement quartz torch suitable for PerkinElmer Optima 2X00 DV, 4X00 DV, 5X00 DV and 7X00 Dual View series ICP-OES instruments. This torch has a single viewing slot, comes with the copper foil attached but does not include an injector. Injectors in various sizes in both quartz and alumina are also available.

Part No.	Description	Qty	List
C805-231	PerkinElmer 2X00 4X00 5X00 7X00 DV Torch Body 1 Slot	1/ea	\$199.00



Injectors, spray chambers and torch bodies are also available for PerkinElmer Optima 8X00DV Series, PerkinElmer/SCIEX ELAN 250 & 500, 5000, 6X00, 9000 & DRC II, NexION, Spectro Modula, CIROS, Genesis, ARCOS, Thermo Scientific TJA 2000-2400 Series, TJA 975, 9000, 61 & 1100, TJA 61E, Iris Advantage Radial, Intrepid Radial, Intrepid II Radial, Iris AP, Intrepid, VG PW 1-3, Axiom, PQ ExCell, X-Series & Teledyne Leeman.

Periodic Table of the Elements

1 H Hydrogen 1.008	2 He Helium 4.003																															
3 Li Lithium 6.941	4 Be Beryllium 9.012											5 B Boron 10.811	6 C Carbon 12.011	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998	10 Ne Neon 20.180															
11 Na Sodium 22.990	12 Mg Magnesium 24.305											13 Al Aluminum 26.982	14 Si Silicon 28.086	15 P Phosphorus 30.974	16 S Sulfur 32.066	17 Cl Chlorine 35.453	18 Ar Argon 39.948															
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.631	33 As Arsenic 74.922	34 Se Selenium 78.972	35 Br Bromine 79.904	36 Kr Krypton 84.798															
37 Rb Rubidium 85.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.95	43 Tc Technetium 98.907	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.906	46 Pd Palladium 106.42	47 Ag Silver 107.868	48 Cd Cadmium 112.411	49 In Indium 114.818	50 Sn Tin 118.710	51 Sb Antimony 121.760	52 Te Tellurium 127.6	53 I Iodine 126.904	54 Xe Xenon 131.294															
55 Cs Cesium 132.905	56 Ba Barium 137.328	57-71 Lanthanides	72 Hf Hafnium 178.49	73 Ta Tantalum 180.948	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.217	78 Pt Platinum 195.085	79 Au Gold 196.967	80 Hg Mercury 200.592	81 Tl Thallium 204.383	82 Pb Lead 207.2	83 Bi Bismuth 208.980	84 Po Polonium [208.982]	85 At Astatine 209.987	86 Rn Radon 222.018															
87 Fr Francium 223.020	88 Ra Radium 226.025	89-103 Actinides	104 Rf Rutherfordium [261]	105 Db Dubnium [262]	106 Sg Seaborgium [266]	107 Bh Bohrium [264]	108 Hs Hassium [269]	109 Mt Meitnerium [268]	110 Ds Darmstadtium [269]	111 Rg Roentgenium [272]	112 Cn Copernicium [277]	113 Nh Nihonium unknown	114 Fl Flerovium [289]	115 Mc Moscovium unknown	116 Lv Livermorium [293]	117 Ts Tennessine unknown	118 Og Oganesson unknown															
																		57 La Lanthanum 138.905	58 Ce Cerium 140.116	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.242	61 Pm Promethium [144.913]	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.500	67 Ho Holmium 164.930	68 Er Erbium 167.259	69 Tm Thulium 168.934	70 Yb Ytterbium 173.055	71 Lu Lutetium 174.967
																		89 Ac Actinium 227.028	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium 244.064	95 Am Americium 243.061	96 Cm Curium 247.070	97 Bk Berkelium 247.070	98 Cf Californium 251.080	99 Es Einsteinium [254]	100 Fm Fermium 257.095	101 Md Mendelevium 258.1	102 No Nobelium 259.101	103 Lr Lawrencium [262]



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With such a wide selection of products from multiple manufacturers, not all options are listed here. If you do not see a product which meets the specifications you need, please feel free to contact us.

BALANCES

Highland Portable Precision Balance

The Highland offers advanced features in a compact, durable balance that stacks for easy storage. Suitable for many tasks, Highland provides fast, accurate weighing in a number of different environments - from science research in the laboratory or field, to manufacturing operations.

Capacity: 1000g
 Readability: 0.01g
 Pan Size: 4.7" / 120mm



Part No.	Description	Qty	List
I440-225	Highland Portable Precision Balance	1/ea	\$495.00

Analytical Balances

These incorporate electromagnetic sensor technology and precision mechanical components to offer superior weight determinations to a fraction of a milligram. Two capacity ranges are available in the Analytical Balance line to weigh samples up to 120g or 210g. Readability for both ranges is 0.0001g (0.1mg)

Capacity: 120g or 210g
 Readability: 0.0001g
 Calibration: External or Internal
 Pan Size: 90mm / 3.5"



Part No.	Description	Qty	List
E400-389	120g; External	1/ea	\$1599.00
E400-393	210g; External	1/ea	\$1859.00
E400-391	120g; Internal	1/ea	\$1699.00
E400-395	210g; Internal	1/ea	\$1975.00

Compact Balance

Compact balances have been designed to meet the basic needs of academic and research labs requiring weight determinations to increments of 0.01g to 0.1g. Their reliable and precise weighing technology utilizes gold-plated, ceramic capacitors to determine sample mass.

Readability: 0.01g
 Calibration: External
 Pan Size: 11.5mm / 4.5"
 Draft Shield: Yes



Part No.	Description	Qty	List
E400-409	120g Capacity	1/ea	\$240.00
E400-411	320g Capacity	1/ea	\$280.00
E400-413	500g Capacity	1/ea	\$280.00

Readability: 0.1g
 Calibration: External
 Pan Size: 11.5mm / 4.5"
 Draft Shield: No

Part No.	Description	Qty	List
E400-415	1200g Capacity	1/ea	\$310.00
E400-417	5000g Capacity	1/ea	\$310.00
E400-419	1000g Capacity	1/ea	\$415.00





Sartorius Entris® Balances

The new Entris® has been specially designed to deliver just effective and reliable weighing results in your daily work. The easy and clearly structured user interface, the logical key assignment and excellent readability are ideal features for error-free operation. 15 different models of Entris® are available, covering a range of weighing capacities from 60 grams to 8,200 grams and a readability of 0.1mg to 0.1g.

*Internal Calibration Models Also Available.

Entris® Technical Specifications - Analytical Balance

Part No.	Weighing Capacity (g)	Readability (mg)	Repeatability (mg)	Linearity (mg)	Typical Stabilization Time (s)	Weighing Pan Size (mm)	Dimensions D x W x H (mm)	List
B327-684	220	0.1	0.1	0.2	2.5	Ø 90	303 x 230 x 330	\$2443.27

Entris Technical Specifications - Precision Balances

Part No.	Weighing Capacity (g)	Readability (mg)	Repeatability (mg)	Linearity (mg)	Typical Stabilization Time (s)	Weighing Pan Size (mm)	Dimensions D x W x H (mm)	List
B327-698	620	1	1	2	1.0	Ø 115	303 x 230 x 136	\$1776.92
B327-688	320	1	1	2	1.1	Ø 115	303 x 230 x 136	\$1285.10
B327-696	6,200	10	10	30	1.5	180 x 180	303 x 230 x 91	\$1835.10
B327-690	4,200	10	10	30	1.5	180 x 180	303 x 230 x 91	\$1591.83
B327-686	3,200	10	10	30	1.5	180 x 180	303 x 230 x 91	\$1412.02
B327-682	2,200	10	10	30	1.5	180 x 180	303 x 230 x 91	\$1163.46
B327-704	820	10	10	30	1.5	Ø 150	303 x 230 x 87	\$978.37
B327-702	8,200	100	100	300	1.5	180 x 180	303 x 230 x 91	\$1343.27

Sartorius Practum® Analytical Balance

Rely on consistent readings and excellent repeatability ensured by Sartorius quality and technology developed and designed in Germany. Practum® has everything you need for standard applications.

Data interface

mini USB

- Automatic recognition of Sartorius printer models B328-956 and B326-432.
- Direct data transfer to Microsoft® application programs without any additional software.
- Programmable interval for data output.
- Choice of SBI, table format or text format data transfer protocols.

Supervisor lock

Menu lock to prevent unintended manipulation.

Housing and draft shield

Robust and easy to clean housing with easy to operate draft shield (where applicable).

Standard application programs

Weighing, Density, Percentage, Checkweighing, Peakhold, Counting and Animal weighing.

Theft lock

Kensington lock and lockdown capability for cable or chain.

In-use cover

Standard for all models.

Underfloor weighing

Integrated.



Part No.	Weighing Capacity (g)	Readability (mg)	Repeatability (mg)	Linearity (mg)	Typical Stabilization Time (s)	Weighing Pan Size (Ø mm)	Weighing Chamber Height (mm)	Dimensions DxWxH (mm)	List
B327-022	220	0.1	0.1	0.2	2	90	209	360 x 216 x 320	\$2771.15
B327-021	120	0.1	0.1	0.2	2	90	209	360 x 216 x 320	\$2552.60
B327-024	310	1	1	2	1	120	209	360 x 216 x 320	\$1549.52
B327-023	210	1	1	2	1	120	209	360 x 216 x 320	\$1438.46
B328-509	3100	10	10	30	1.5	180		360 x 216 x 95	\$1549.52
B327-026	1100	10	10	30	1.5	180		360 x 216 x 95	\$1248.08
B327-025	610	10	10	30	1.5	180		360 x 216 x 95	\$1126.44
B328-510	410	10	10	30	1.5	180		360 x 216 x 95	\$1015.39
B328-513	6100	100	100	300	1.5	180		360 x 216 x 95	\$1390.87
B327-028	5100	100	100	300	1.5	180		360 x 216 x 95	\$1327.40
B328-568	2100	100	100	300	1.5	180		360 x 216 x 95	\$1163.46
B327-029	5100	1000	500	1000	1	180		360 x 216 x 95	\$1025.96



GB Platform Scales

With a removable stainless steel pan, GB platform scale offers a durable solution for industrial applications such as weighing, parts counting, percentage weighing and comparative weighing. It is compatible with a number of indicators and is available in a range of capacities and platform sizes. The GB is well-suited for shipping and receiving, batching items for processing and stock and warehouse auditing.

Features include single-point precision load cell technology and overload protection. Connect GB to Adam's CBD scale as an auxiliary platform as needed.

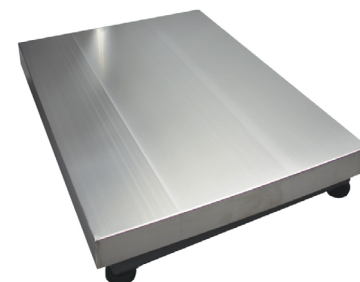
Capacity: 35lb / 16kg to 260lb / 120kg

Readability: 0.001lb / 0.5g to 0.01lb / 5g

Rugged construction stands up to industrial use

Can be used with any Adam indicators

Overload protection helps prevent damage to internal components



Part No.	Capacity	Readability	Pan Size	Qty	List
I440-191	35lb / 16kg	0.001lb / 0.5g	11.8 x 15.7"	1/ea	\$375.00
I440-192	70lb / 32kg	0.002lb / 1g	11.8 x 15.7"	1/ea	\$375.00
I440-193	130lb / 60kg	0.005lb / 2g	11.8 x 15.7"	1/ea	\$375.00
I440-200	260lb / 120kg	0.01lb / 5g	11.8 x 15.7"	1/ea	\$375.00

Warrior® Washdown Scales

Warrior® scales meet the demands of washdown and clean room environments in most applications, including food, pharmaceutical, veterinary, industrial and manufacturing tasks.

Warrior® scales feature durable, IP66-rated stainless steel bases and sealed indicator for operation in wet environments or easy cleaning after weighing.

Capacity: 16lb / 8kg to 330lb / 150kg

Readability: 0.001lb / 0.5g to 0.02lb / 0.01kg

Hardware

Color-coded keys facilitate quick recognition of the most frequently used buttons

Heavy-duty rubber feet ensure stability of unit

Large, grade 304 stainless steel pan allows swift cleaning

Overload protection helps prevent damage to internal components

Rugged stainless steel construction for ultimate durability

Sealed keypad protects against dirt and spills

Simple key operation allows for easy set up and operation

Optional RS-232 interface is available to provide speedy connection to computers and printers

Software

Checkweighing with audible alarm

External calibration allows for verification and adjustment with weights

Parts counting with preset sample sizes

Selectable digital filtering for animal/dynamic weighing enables consistent results for moving subjects

Zero-tracking feature ensures display returns to zero reading

Display

Vivid, backlit LCD easily visible in any lighting conditions

Programmable backlight can be set to "always on," "always off" or "light only when weighing"

Capacity tracker built into display for easily monitoring possible overloads

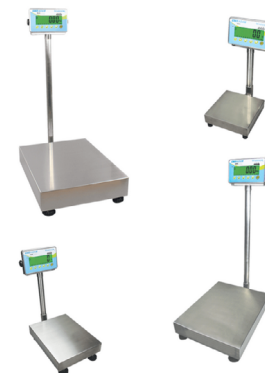
Checkweighing LEDs clearly show under, over and acceptable limits

Power

Rechargeable battery included for operation almost anywhere

Programmable auto power-off to save energy

AC adapter included



Part No.	Capacity	Readability	Pan Size	Qty	List
I440-382	16lb / 8kg	0.001lb / 0.5g	9.8 x 9.8"	1/ea	\$875.00
I440-383	35lb / 16kg	0.002lb / 1g	9.8 x 9.8"	1/ea	\$875.00
I440-384	70lb / 32kg	0.005lb / 2g	9.8 x 9.8"	1/ea	\$875.00
I440-367	70lb / 32kg	0.002lb / 1g	11.8 x 15.7"	1/ea	\$1125.00
I440-366	70lb / 32kg	0.005lb / 2g	11.8 x 15.7"	1/ea	\$975.00
I440-365	165lb / 75kg	0.01lb / 5g	11.8 x 15.7"	1/ea	\$975.00
I440-378	165lb / 75kg	0.01lb / 5g	15.7 x 19.7"	1/ea	\$975.00
I440-379	165lb / 75kg	0.002lb / 1g	15.7 x 19.7"	1/ea	\$1475.00
I440-380	330lb / 150kg	0.02lb / 0.01kg	15.7 x 19.7"	1/ea	\$1325.00
I440-381	330lb / 150kg	0.02lb / 0.01kg	17.7 x 23.6"	1/ea	\$1525.00

Balance Accessories

Disposable Round Aluminum Weigh Dishes w/Tabs

Multi-use: Evaporating dish, weighing dish, parts container, dust cover & more.

Clean: No oil residue, no vinyl coating to create contamination problems for the user.

Strong: Crimped sides for rigidity, sturdy gauge for heavy duty use.

Precision made: Large tab for sample numbers, flat bottom to improve sample handling, sides are angled for easy separation.

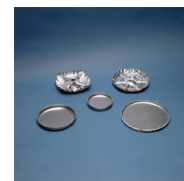


Part No.	Size/Capacity	Qty/pk	List/pk	Qty/cs	List/cs
D150-002	43mm; 20mL	100/pk	\$25.32	1000/cs	\$180.89
D150-003	57mm; 60mL	100/pk	\$28.20	1000/cs	\$201.48
D150-007	70mm; 80mL	100/pk	\$39.55	1000/cs	\$282.48

Disposable Aluminum Drying/Moisture Pans

Flat-top balance pan. Compatible with Ohaus® balances and moisture analyzers or any flat-top balance.

Weighing/Drying pan, oil free, ideal for general purpose weighing, dispensing, storage and drying. Compatible with Mettler, Sartorius® and Denver Inst., etc. Excellent weighing accessory. Deep.



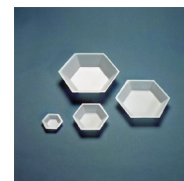
Part No.	I.D. Dia / Dimensions	Qty/pk	List/pk	Qty/cs	List/cs
D151-004	70mm; 5 x 3/16"	100/pk	\$86.35	1000/cs	\$616.53
D151-005	102mm; 4 x 5/16"	50/pk	\$68.80	500/cs	\$491.20

Hexagonal Polystyrene Weighing Dishes (Anti-Static)

Translucent, anti-static, polystyrene (plastic); flexes easily for weighing, dispensing or pouring liquids or solids.

Unique hexagonal design for non-slip handling and pouring. Biologically inert; resistant to most dilute acids, aqueous solutions and alcohol bases. Flat bottoms resist tipping. Hundreds of sampling and weighing applications.

Disposable.



Part No.	O.D. x Depth / Capacity	Qty/pk	List/pk	Qty/cs	List/cs
D162-001	1-3/4 x 3/8"; 20mL	500/pk	\$73.04	4000/cs	\$417.38
D162-002	3 x 3/4"; 50mL	n/a	n/a	500/cs	\$91.13
D162-003	4-3/4 x 7/8"; 200mL	n/a	n/a	500/cs	\$183.71
D162-004	5-1/2 x 1/4"; 350mL	n/a	n/a	500/cs	\$226.57

Square Polystyrene Weighing Dishes (Anti-Static)

General purpose sample holders. Translucent, rubberized polystyrene (plastic) withstands temperatures to 180°F, flexes for easy pouring. Biologically inert; resistant to dilute acids, aqueous solutions, alcohols & bases. For use with balances, microwave moisture analyzers, hundreds of other sample handling applications. Flat bottom resists tipping. Contoured sides.

Color: Natural



Part No.	Top I.D. x I.D.	Qty/pk	List/pk	Qty/cs	List/cs
D163-001	1-5/8 x 5/16"	500/pk	\$86.59	4000/cs	\$494.80
D163-003	3-1/2 x 1"	n/a	n/a	500/cs	\$104.11
D163-005	5-1/2 x 7/8"	n/a	n/a	500/cs	\$206.24

Weighing Paper

Super smooth & strong. Non-absorbent, moisture proof. Packaged in 4mil poly bags for extra moisture and soil protection. Nitrogen free.



Part No.	Description	Qty	List
W430-015	4 x 4"	500/pk	\$14.45
W430-016	6 x 6"	500/pk	\$20.90

Balance Table - Synthetic Stone

Completely made of cast stone, except the shock absorbers. The high density of the tables solid material provides excellent support for balances to meet the highest weighing requirements such as those stipulated for calibration of weights using mass comparators. This table is also recommended if cleanliness of the weighing area is a major requirement.

Part No.	Description	Qty	List
B328-984	Balance Table Synthetic Stone	1/ea	\$2744.42



Anti-Vibration Table

Ergonomically styled, the AVT offers a solid, stable surface developed specifically to help decrease vibration during measurement. When used in tandem with a balance, the table allows the balance to perform with marked precision, despite air currents or movements that might cause readings to fluctuate. The AVT is easy to assemble, with all necessary tools supplied. The internal working surface measures 15.7 x 17.7" / 400 x 450mm, allowing ample space for a balance. It's large, scratch-resistant dark granite slab sits on shock-absorbing rubber mounts, while leveling feet accommodate uneven surface, stabilizing the base and enabling greater precision.



Part No.	Description	Qty	List
I440-389	Anti-Vibration Table	1/ea	\$675.00

Precision Analytical Individual Weights - Metric

Weights are manufactured from the finest materials including Troemner Alloy 8 and are manufactured in sizes ranging from 1mg through 50kg. Weights are available in Troemner UltraClass Platinum, UltraClass Gold, UltraClass and ANSI/ASTM E617 Class 000*, 00*, 0, 1, 2, 3 and 4.

Weights are designed so the specifications on surface finish, markings, construction, material density and magnetic properties become more restrictive as the weight tolerances decrease in order to enable the weight to maintain its tolerance over time. These weights are designed for your most demanding weighing applications.

Analytical Precision Class 1 Weight

Class 1 - Can be used as a reference standard in calibrating other weights and is appropriate for calibrating high-precision analytical balances with a readability as low as 0.1mg to 0.01mg.



Part No.	Description	Qty	List
W821-848	100g No Certificate	1/ea	\$130.91
W821-849	100g With Traceable Certificate	1/ea	\$163.11

Analytical Precision Class 1 Cal-Pak with NVLAP Accredited Certificate

Class 1 - Can be used as a reference standard in calibrating other weights and is appropriate for calibrating high-precision analytical balances with a readability as low as 0.1mg to 0.01mg.



Part No.	Description	Qty	List
W822-604	50g-20mg Cal-Pak w/Certificate	1/ea	\$664.74
W822-608	1kg-2g Cal-Pak w/Certificate	1/ea	\$818.52

Analytical Precision Class 2 Weight

Class 2 - Appropriate for calibrating high-precision top loading balances with a readability as low as 0.01g to 0.001g.



Part No.	Description	Qty	List
W821-851	100g No Certificate	1/ea	\$121.57
W821-852	100g With Traceable Certificate	1/ea	\$154.07

Analytical Precision Class 3 Weight

Class 3: Appropriate for calibrating balances with moderate precision and with a readability as low as 0.1g to 0.01g.



Part No.	Description	Qty	List
W821-854	100g No Certificate	1/ea	\$120.37
W821-855	100 With Traceable Certificate	1/ea	\$151.96

Analytical Precision Class 4 Weight

Class 4 - For calibration of semi-analytical balances and for student use.



Part No.	Description	Qty	List
W821-845	200g No Certificate	1/ea	\$156.19
W821-846	200g With Certificate	1/ea	\$204.93
W821-869	50g No Certificate	1/ea	\$83.35
W821-870	50g With Certificate	1/ea	\$93.30

Certificate Options Comparison Chart

The chart below depicts the varying features among the certificate options of an individual weight or weight set.

	NVLAP+ Accredited Mass Code Report of Mass Values	NVLAP+ Accredited Primary Reference Certificate	NVLAP+ Accredited Certificate	UKAS++ Accredited Certificate	Traceable Certificate
Name, Address, P.O. Number	X	X	X	X	X
Date of Calibration	X	X	X	X	X
Serial Number	X	X	X	X	X
Equipment and Standards Used					
Balance – Calibration Due Dates	X	X	X	X	
Standards – Calibration Due Dates	X	X	X	X	
Standards – Corrections	X				
Accuracy Class	X	X	X	X	X
Nominal Value	X	X	X	X	X
Conventional Mass Value					
“As Found Data” *	X	X	X	X	
“As Left Data”	X	X	X	X	
Conventional Mass Correction					
“As Found Data” *	X	X	X	X	X
“As Left Data”	X	X	X	X	X
True Mass Value (Mass in a Vacuum)					
“As Found Data” *	X	X	X	X	
“As Left Data”		X	X	X	
Density Determination	X	X			
Magnetic Susceptibility Determination	X	X			
Uncertainty of Measurement Process	X	X	X	X	X
Environmental Conditions During Test	X	X	X	X	
Construction and Density of Weights	X	X	X	X	X
Calibration Procedures Used	X	X	X	X	
Statement of Traceability to NIST	X	X	X	X	X
Measurement Assurance Data	X				
Helpful List of Terms and Definitions		X	X	X	
One Series of Comparisons Using a Single Standard		ANSI/ASTM Class 5,6 OIML Class M1, M2 NIST Class F			All Classes
Multiple Comparisons Using a Check Standard	One-Piece Weights ANSI/ASTM Class 000, 00, 0 OIML Class E0*, E1, E2		ANSI/ASTM Class 0, 1, 2, 3, 4 OIML Class E1, E2, F1, F2		
Comparison Method Data	X				
Meets ISO/IEC 17025, FDA, GMP, DOD, ANSI/NCSL Z540-1, NCR 10CFR50 Appendix B	X	X	X	X	

+ NVLAP Laboratory Code 105013-0

++ A UKAS Accredited Calibration Laboratory No. 0516

*E0 is a theoretical tolerance that is 50% of OIML R 111 Class E1



BAROMETERS

Traceable® Precision Dial Barometer

Highly reliable, place-anywhere barometer delivers meticulous results.

Barometer has response time of 1 to 4 hours and triple scales that provide precise, sensitive measurements of atmospheric pressure.

Adjustable pointer may be set to indicate changes.

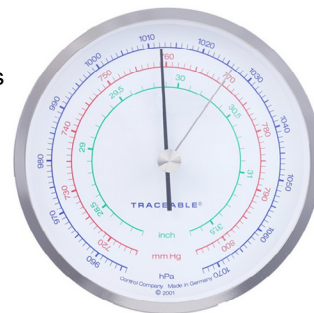
Traceable® Precision Barometer's triple scales provide a sensitive measure of atmospheric pressure from 954 to 1073 millibars, 28.1 to 31.7 inches of mercury and 715 to 805 millimeters of mercury with a resolution of 0.5 mbar, 0.05 inHg and 0.5 mmHg. Accuracy is ±0.5% of reading.

Traceable® Certificate.

Multi-point calibration on an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Housing is rugged corrosion-proof, nickel-chrome. Complete with notched desk stand and wall mount. Size is 4-1/8 inches diameter by 1-1/2 inches. Weight is 1 pound.

- Barometric Press. Range: 28.1 to 31.7" Hg, 945 to 1073mbar, 715 to 805mmHg
- Barometric Press. RES: 28.1 to 31.7" Hg, 945 to 1073mbar, 715 to 805mmHg
- Barometric Press. Accuracy: ±0.5% of reading
- Min/Max Memory: N
- Data Logging: N
- Dimensions: 4-1/8 x 1-1/2"
- Weight: 1 pound
- A/C Plug (Y/N): N
- Traceable: Y
- CE Marked: N
- Supplied With: Altitude Adjustment Screw, Stand, Wall Mount, Traceable® Certificate



Part No.	Description	Qty	List
T501-340	Precision Dial Barometer	1/ea	\$183.28

Traceable® Digital Barometer

A four-line LCD continuously and simultaneously shows barometric pressure, temperature, relative humidity, barometric pressure trend and time-of-day. Minimum/Maximum readings for barometric pressure, temperature and relative humidity are stored every hour for the last 24 hours and are available for recall at the touch of a button. Computer output allows unit to be connected to a computer using the accessory Computer Data Acquisition System to permanently capture readings. Digital Barometer is the perfect unit for plants, labs and all other environments where there is a need to monitor conditions of environmental air parameters. HI/LO alarms can be set for barometric pressure, temperature and relative humidity.

Barometric pressure range from 500 to 1030 millibars (mbar) with a resolution of 1 mbar. Accuracy is ±4 mbar. Barometric pressure trend shows in bar-chart format the current and past 1-, 3-, 6-, 12- and 24-hour readings. Switching permits viewing in millibars (mbar), inches of mercury (inHg) or hectopascals (hPa). Altitude compensation is -100 to 2500 meters.

Temperature range is 32 to 131°F and 0 to 55°C. Resolution is 0.1° and accuracy is ±0.4°C. Relative humidity range is 5 to 95%. Resolution is 1% RH and accuracy is ±3% RH between 5 to 75%, otherwise ±5% RH.

Multi-point calibration on an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Supplied: Traceable® Certificate, wall mount, flip open stand and batteries. Size: 4 x 3 x 1" Weight: 7oz

- Ambient Temperature Range: 32 to 131°F and 0 to 55°C
- Ambient Temp Resolution: ±0.4°C
- Ambient Temp Accuracy: 0.1°
- Humidity Range: 5 to 95% RH
- Humidity Resolution: 1% RH
- Humidity Accuracy: ±3% RH between 5 to 75%, otherwise ±5% RH
- Barometric Press. Range: 500 to 1030 millibars (mbar)
- Barometric Press. RES: 1 mbar
- Barometric Press. Accuracy: ±4 mbar
- Temp MIN/MAX Memory: Y
- Data Logging: Y
- Exportable Data (Y/N): Y



Part No.	Description	Qty	List
T502-099	Digital Barometer	1/ea	\$226.35

Traceable® Hand Held Barometer

Hand-held unit measures altitude, temperature and barometric pressure. Barometric trend graph delivers present and previous 2/4/6/8/10 and 12-hour readings in bar-chart format. Barometer pressure readings are updated every 15 minutes.

Barometer, altimeter, thermometer, stopwatch, compass and time-of-day clock. Multi-point calibration on an individually-numbered Traceable® Certificate which assures accuracy from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability of measurements to the SI units through NIST or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Agreement.

Barometer

Measures barometric pressure from 8.85 to 32.45 inches of mercury (inHg) with a resolution of 0.01 inHg and from 300 to 1100 millibars (mbar) with a resolution of 1 mbar. Accuracy is ±8 mbar at tested points.

Altimeter

Measures altitude from -2296 to 29520 feet (-700 to 9000 meters), with a resolution of 0.1 from -500 to 999.9, 1 otherwise. Altitude is displayed in meters or feet. Reading is updated every 2 seconds. Features a minimum/maximum memory for the altitudes reached during any time period and the altitude trend shows present reading and previous 12-hours. May also be manually adjusted to a known altitude.

Thermometer, stopwatch/timer, clock and compass

Thermometer displays from -10 to 60 °C/14 to 140°F with a resolution of 0.1°. Accuracy is ±1.5°C. Temperature display is updated every minute. Stopwatch times events from 1 second to 23 hrs, 59 min, 59 sec. Countdown alarm timer counts down in from 1 second to 23 hrs, 59 minutes, 59 seconds. Resolution is 1 second. Clock displays the time of day and shows the date, month and day of week. The clock also features a format of 12/24-hour timing and an alarm. Compass feature displays real time direction in whole circle bearing or compass bearing. Rugged shock-resistant case, compact size 3-3/4 x 2-3/4 x 3/4-inches and light weight 3-1/2 ounces make this the perfect portable unit. Supplied complete with lanyard, 2 batteries and instructions.

Ambient Temperature Range:	-10 to 60°C (14 to 140°F)
Ambient Temp Resolution:	0.1°C or 0.1°F
Ambient Temp Accuracy:	±1.5°C
Barometric Press. Range:	8.85 to 32.45" Hg; 300 to 1100 mbar
Barometric Press. RES:	8.85 to 32.45" Hg; 300 to 1100 mbar
Barometric Press. Accuracy:	±0.2363" Hg; ±8 mbar
Altitude Range:	-2296 to 29520 ft, -700 to 9000 meters
Altitude Resolution:	0.1 from -500 to 999.9, 1 elsewhere
# Channels/zones:	1
Timing Capacity Stopwatch and Countdown:	1 sec to 23 hrs, 59 min, 59 sec
Timing Resolution:	.1°
Min/Max Memory:	Y
Hold (Y/N):	N
Average (Y/N):	N
Data Logging:	N
Exportable Data (Y/N):	N
Dimensions:	2-3/4 x 3/4 x 3-3/4"
Weight:	3-1/2 ounces
A/C Plug (Y/N):	N
Traceable:	Y



Part No.	Description	Qty	List
T501-339	Hand Held Barometer	1/ea	\$321.90

DIAL BAROMETER with Thermometer/Hygrometer

Range 960 to 1070 millibars 720-800mm mercury
 -50° to 70°C
 20/100% RH
 Min-Max w/Memory Recall



Part No.	Description	Qty	List
T106-700	Dial Barometer w/ Thermometer/Hydrometer	1/ea	\$99.00



COLORIMETERS

Orion™ AQ3700 AQUAfast™ Colorimeter

Manage your water and wastewater analysis using over 90 preprogrammed methods for common test parameters with automatic selection of 6 LED wavelengths and countdown timer. Methods include total nitrogen and total phosphate nutrient testing or create up to 10 custom methods using 2-14 standards and blank. This IP67 waterproof meter records 1000 data points, offers a long battery life of about 26 hours continuous use or 3500 tests and multilanguage user interface.



Accuracy: 2 full Scale %
 Sample Size: 10mL
 Resolution: ±0.005 Abs
 Test Reagent Formats: Powder, Tablet, Liquid, Reagent tubes, Digestion Tubes. Color, Turbidity and Suspended Solids Tests do not require reagents.

Part No.	Description	Qty	List
M300-508	AQUAfast Colorimeter	1/ea	\$1393.21

Accessories

Part No.	Description	Qty	List
M300-425	Replacement 16mm Vials	10/pk	\$95.17
M300-426	Replacement 24mm Vials	12/pk	\$181.51
M300-446	Sealing ring for 24mm Vial	12/pk	\$36.30
M300-443	Replacement 16mm Adapter	1/ea	\$107.93
M300-442	Replacement 13mm Adapter	1/ea	\$107.93
M300-444	Cleaning Brush	5/pk	\$43.17
M300-448	Meter Verification Check Standards Kit	1/ea	\$337.26

SMART 3 Colorimeter

The compact SMART3 Colorimeter is ideal for water analysis in the field or in the lab. Easy to use software allows the analyst to choose a test factor from over 75 pre-programmed calibrations for LaMotte reagent systems. The reacted sample is always scanned at the optimum wavelength which is automatically selected from the multiple LED optical system and the test result is presented on the large, backlit display. The colorimeter test results is displayed directly in units of concentration, as well as Absorbance and %T, in one of seven languages. The analyst also has the option of entering up to 25 additional calibrations for analysis with custom reagent systems. Test factors can be arranged in any of three sequences that can be modified at any time to meet changing testing needs. The data logger holds up to 500 time and date stamped datapoints.

A USB connection allows an interface of the colorimeter with a computer for real-time data acquisition and data transfer.

Wavelengths: 428nm, 525nm, 568nm & 635nm
 Photometric Range: -2 to +2 AU
 Sample Chamber: 25mm Diameter flat bottom test tubes, 10mm square Cuvettes or 16mm COD Tubes



Part No.	Description	Qty	List
K440-458	SMART3 Colorimeter	1/ea	\$326.38

Colorimeter Accessories & Replacement Items

Part No.	Description	Qty	List
K440-070	Test Tubes with Caps	6/pk	\$42.06
K440-423	USB Cable	1/ea	\$7.85
K440-424	USB Wall Adapter	1/ea	\$23.48
K440-425	COD/UDV Adapter	1/ea	\$43.57
K441-435	Car Charger	1/ea	\$67.12

DATA LOGGERS

KLIMALogg Pro Data Logger

The KLIMALogg Pro data logger can monitor and record up to 50,000 sets of temperature and humidity measurements. Monitor the local ambient temperature and humidity with the KLIMALogg pro unit, plus receive data from up to 8 remote wireless sensors that can transmit up to 110 yards or 100 meters.

Temperature Accuracy: $\pm 0.5^{\circ}\text{C}$
 Temperature Measuring Range: 0 to 50°C w/ 0.1°C (32 to 122°F w/ 0.2°F) Resolution
 Humidity Accuracy: $\pm 3\%$ RH 35 to 75% RH, otherwise $\pm 5\%$ RH
 Humidity Measuring Range: 1 to 99% w/ 1% Resolution



Part No.	Description	Qty	List
T106-736	KLIMALogg Pro Data Logger	1/ea	\$327.35

Micro-Therm USB Temperature Cold Chain Data Logger

Small, rugged, waterproof and dust proof data loggers to monitor time and temperatures for vaccines, pharmaceuticals, biologics and other perishable products during distribution and short term storage. Data can be displayed on LCD screen or downloaded via USB 2.0 connector. Unique Boomerang feature that automatically creates and emails PDF data report when logger is connected to PC.

NIST Traceable w/Certificate

Temperature Range: -40°C to 80°C
 Temperature Accuracy: 0.3°C
 Resolution: 0.1°C (Display) 0.06°C (Software)
 Data Capacity: 8,000 Samples
 Sampling Rate: 1 per second to 1 every 2 hours



Part No.	Description	Qty	List
T106-606	USB Temperature Cold Chain Data Logger	1/ea	\$193.44

Supra Precision Handheld RTD Platinum Digital Thermometer

Thermco's T107-172 & T107-173 are a very accurate temperature measuring systems. With the accuracy of 0.1°C and resolution of 0.01°C , it will fulfill the most critical measuring requirement. The unit is equipped with tilt stand and large backlight LCD that makes this unit perfect to setup as a test station on site.

Automatic Locked Push-pull Connector For Easy Connection. Dual Display. MAX/MIN Function.

$^{\circ}\text{C}$ & $^{\circ}\text{F}$ Scale Selectable. Data Hold Function. Relative Function. Auto Power Off. User Offset Adjustable.

Measurement Range: -100 to 400°C (-148 to 752°F)
 Measurement Accuracy: $\pm 0.1^{\circ}\text{C}$ ($\pm 0.2^{\circ}\text{F}$)
 Resolution: 0.01°C (0.02°F)
 Sampling Rate: 2 time/sec.
 Battery: 9v battery
 Dimensions: 185(L) x 65(W) x 36(H) mm (meter only)
 Weight: Approx. 360g
 Sensor Type: Platinum temperature-measurement resistor (Pt 100/4 line type)

9" Probe, 5" Handle, 24" Cable
 Included with Unit: Precision Pt-100 Probe, 9V Battery, Instruction Manual, Carry Case, Windows® Software(CT376DIG), USB Cable(CT376DIG)

T107-173

Data Logger Model, 16,000 Records
 100 Manual Recording Data Memory Include On Meter Readout Function.
 Record Temperature, Time And Date Of Measurement.
 Windows® Software.
 RS-232 / USB Interface.



Part No.	Description	Qty	List
T107-172	"SUPRA" PRECISION - RTD Platinum Thermometer w/ MEMORY	1/ea	\$544.72
T107-173	"SUPRA" PRECISION - RTD Platinum Thermometer w/ DATA LOGGER	1/ea	\$642.33



HiTemp 140 Autoclave Temperature Data-Logger

The HiTemp 140 is a rugged, high precision, temperature data logger for use in severe environments, e.g Autoclaves & Sterilizers, Ovens, Research Labs and Food Processing.

This stainless steel device is submersible, can withstand temperatures up to 140°C (284°F) and has an accuracy of +/-0.1°C (0.18°F) over the entire operating range. The HiTemp 140 stores up to 32,700 date & time stamped readings and has non-volatile solid state memory that will retain data even if the battery becomes discharged. Using the USB Docking Station & Software (sold separately), starting, stopping and downloading the HiTemp140 data is simple and easy. Graphical, tabular and summary data is provided for analysis and data can be viewed in °C, °F, K or °R. The data can also be automatically exported to Excel® for further calculations.



Part No.	Description	Qty	List
T106-785	High Temperature Data Logger with a 2" probe (USB docking station sold separately)	1/ea	\$783.72
T106-788	High Temperature Data Logger with 24" Flex probe (USB docking station sold separately)	1/ea	\$783.72
T107-661	NIST Calibration Certificate	1/ea	\$156.79
T106-895	Docking Station, USB Cable, Manual and Data Logger Software - XP SP3/Vista/Windows 7	1/ea	\$225.07
T106-789	Replacement battery for the ACCHITemp135	1/ea	\$122.14

Temperature Chart Recorders

Record seven-day history on 6" charts using Thermo Scientific™ Temperature Chart Recorders, for use with most freezers and refrigerators. These recorders are ideal when ultra-low temperature freezers need to meet validation and regulatory requirements.



Part No.	For Use With	Type	Temp Range	Qty	List
C601-166	-40 to + 38	Built-In	-40° to + 38°C	1/ea	\$2458.04
C601-172	-140° and -150° Freezers	Chart Recorder	-200° to 0°C	1/ea	\$2613.54
C601-173	-140° and -150° Freezers	Chart Recorder	-100° to 0°C	1/ea	\$3605.23
C601-167	FMS High-Performance Flammable Storage Freezers	Built-In	-100° to 0°C	1/ea	\$2461.26

Temperature Chart Recorder Paper

Use Thermo Scientific™ Temperature Chart Recorder Paper in seven-day circular temperature chart recorders

Diameter: 6" (15.2cm)

Temperature Range: -200° to 0°C

For Use With: Free-Standing and Panel-Mounted Chart Recorders

Part No.	Temperature Range	Qty	List
C600-922	-200° to 0°C	50/pk	\$153.38
C600-846	-40° to + 25°C	50/pk	\$164.27

Needing replacement chart recorder pens?

We can help!

Contact your sales representative for more information!



HYDROMETERS

Plastic Hydrometers

Thermco's® Plastic Hydrometers are fabricated from polycarbonate (PC) which makes the instrument shatter-proof, while offering glass-like clarity for ease of reading. All models are plain form, so a separate thermometer should be used to measure the temperature of the sample and correct for any temperature variations.

The plastic hydrometers are made for: Specific Gravity, Salt-Brine, Baume, Sugar Brix scales.

Length 300 mm; Fabricated from Polycarbonate; Shatter Proof; Glass-Like Clarity; Calibrated against NIST Standards; May be Certified - Traceable to NIST; Temperature Standard 60°F; Approximately 300mm Long.



Specific Gravity - Temp Std. 15°C/15°C (60°F/60°F)

For Liquids Heavier Than Water

Part No.	Range	Divisions	Length	Qty	List
T106-525	1.000 to 1.220	0.002	300mm	1/ea	\$101.16
T106-526	1.200 to 1.420	0.002	300mm	1/ea	\$101.16
T106-527	1.400 to 1.620	0.002	300mm	1/ea	\$101.16

Salt Brine - Temp Std. 20°C/20°C (68°F/68°F)

Percent Of Salt By Weight

Part No.	Range	Divisions	Length	Qty	List
T106-518	0 to 26.5%	0.5	300mm	1/ea	\$101.16

Baume - Temp Std. 15°C/15°C (60°F/60°F)

For Liquids Heavier Than Water

Part No.	Range	Divisions	Length	Qty	List
T106-522	0 to 25°	0.2	300mm	1/ea	\$101.16
T106-502	0 to 12°	0.2	250mm	1/ea	\$101.16
T106-503	9 to 21°	0.2	250mm	1/ea	\$101.16
T106-504	19 to 31°	0.2	250mm	1/ea	\$101.16
T106-505	29 to 41°	0.2	250mm	1/ea	\$101.16
T106-506	39 to 51°	0.2	250mm	1/ea	\$101.16
T106-507	49 to 61°	0.2	250mm	1/ea	\$101.16
T106-508	59 to 71°	0.2	250mm	1/ea	\$101.16

Sugar, Brix - Temp Std. 20°C/20°C (68°F/68°F)

Temperature Standard 20°C

Part No.	Range	Divisions	Length	Qty	List
T106-521	0 to 35%	0.5	285mm	1/ea	\$101.16
T106-532	0 to 50%	0.5	285mm	1/ea	\$101.16
T106-520	0 to 15%	0.2	285mm	1/ea	\$101.16
T106-523	15 to 30%	0.2	285mm	1/ea	\$101.16
T106-528	30 to 45%	0.2	285mm	1/ea	\$101.16
T106-529	45 to 60%	0.2	285mm	1/ea	\$101.16
T106-530	60 to 75%	0.2	285mm	1/ea	\$101.16
T106-531	75 to 90%	0.2	285mm	1/ea	\$101.16

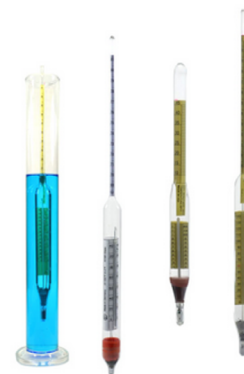
PETROLEUM GOLD BRAND Precision ASTM / API Hydrometers

Thermco's® Petroleum Gold Brand Hydrometers are a superior brand of high precision hydrometers calibrated to the highest standard that exceeds the exacting ASTM standards.

Made from the finest materials available; the glass is free from imperfections, has the suitable thermal properties for the entire temperature range that would be subjected and resists any reactions from chemical agents.

Each hydrometer has been calibrated against NIST standards and furnished with a NIST traceable certificate.

All hydrometers conform to or exceed all specifications set forth in the ASTM "Annual Book of ASTM Standards", Section 14, Volume 14.03, Designation E 100-05.



ASTM - API Hydrometers

ASTM / API - Plain Form

330 mm Length

Part No.	ASTM No.	API Range	Divisions	Qty	List
T107-190	ASTM 1H	-1 to 11°	0.1°	1/ea	\$35.16
T107-191	ASTM 2H	9 to 21°	0.1°	1/ea	\$35.16
T107-192	ASTM 3H	19 to 31°	0.1°	1/ea	\$35.16
T107-193	ASTM 4H	29 to 41°	0.1°	1/ea	\$35.16
T107-194	ASTM 5H	39 to 51°	0.1°	1/ea	\$35.16
T107-195	ASTM 6H	49 to 61°	0.1°	1/ea	\$35.16
T107-196	ASTM 7H	59 to 71°	0.1°	1/ea	\$35.16
T107-197	ASTM 8H	69 to 81°	0.1°	1/ea	\$35.16
T107-198	ASTM 9H	79 to 91°	0.1°	1/ea	\$35.16
T107-199	ASTM 10H	89 to 101°	0.1°	1/ea	\$35.16

ASTM / API - Plain Form

163 mm Length

Part No.	ASTM No.	API Range	Divisions	Qty	List
T107-202	ASTM 21H	0 to 6°	0.1°	1/ea	\$35.24
T107-203	ASTM 22H	5 to 11°	0.1°	1/ea	\$35.16
T107-204	ASTM 23H	10 to 16°	0.1°	1/ea	\$35.16
T107-205	ASTM 24H	15 to 21°	0.1°	1/ea	\$35.16
T107-206	ASTM 25H	20 to 26°	0.1°	1/ea	\$35.16
T107-207	ASTM 26H	25 to 31°	0.1°	1/ea	\$35.16
T107-208	ASTM 27H	30 to 36°	0.1°	1/ea	\$35.16
T107-209	ASTM 28H	35 to 41°	0.1°	1/ea	\$35.16
T107-210	ASTM 29H	40 to 46°	0.1°	1/ea	\$35.16
T107-211	ASTM 30H	45 to 51°	0.1°	1/ea	\$35.16
T107-212	ASTM 31H	50 to 56°	0.1°	1/ea	\$35.16
T107-213	ASTM 32H	55 to 61°	0.1°	1/ea	\$37.80
T107-214	ASTM 33H	60 to 66°	0.1°	1/ea	\$35.16
T107-215	ASTM 34H	65 to 71°	0.1°	1/ea	\$35.16
T107-216	ASTM 35H	70 to 76°	0.1°	1/ea	\$35.16
T107-217	ASTM 36H	75 to 81°	0.1°	1/ea	\$35.16
T107-218	ASTM 37H	80 to 86°	0.1°	1/ea	\$35.16
T107-219	ASTM 38H	85 to 91°	0.1°	1/ea	\$35.16
T107-220	ASTM 39H	90 to 96°	0.1°	1/ea	\$35.16

ASTM / API - Combined Form

COMBINED IN STEM

30 / 220°F Thermometer 380 mm Length

Part No.	ASTM No.	API Range	Divisions	Qty	List
T107-312	ASTM 71H	1 to 11°	0.1°	1/ea	\$87.26
T107-314	ASTM 72H	9 to 21°	0.1°	1/ea	\$87.26
T107-316	ASTM 73H	19 to 31°	0.1°	1/ea	\$87.26
T107-318	ASTM 74H	29 to 41°	0.1°	1/ea	\$87.26

Spirit Filled Thermometers

Part No.	ASTM No.	API Range	Divisions	Qty	List
T107-313	ASTM 71H	1 to 11°	0.1°	1/ea	\$87.26
T107-315	ASTM 72H	9 to 21°	0.1°	1/ea	\$87.26
T107-317	ASTM 73H	19 to 31°	0.1°	1/ea	\$87.26
T107-319	ASTM 74H	29 to 41°	0.1°	1/ea	\$87.26

ASTM LPG COMBINED IN BODY

30 / 90°F Thermometer 380mm Length

Part No.	ASTM No.	API Range	Divisions	Qty	List
T107-329	ASTM 101H	0.50 to 0.65°	0.001°	1/ea	\$75.51

A wide range of thermometers
can be found on
pages 271-283.

Instruments

ASTM / API - Combined Form - COMBINED IN BODY 0 / 150°F Thermometer 380 mm Length

Part No.	ASTM No.	API Range	Divisions	Qty	List
T107-224	ASTM 41HL	15 to 23°	0.1°	1/ea	\$70.30
T107-230	ASTM 42HL	22 to 30°	0.1°	1/ea	\$70.30
T107-236	ASTM 43HL	29 to 37°	0.1°	1/ea	\$70.30
T107-242	ASTM 44HL	36 to 44°	0.1°	1/ea	\$70.30
T107-248	ASTM 45HL	43 to 51°	0.1°	1/ea	\$70.30
T107-254	ASTM 51HL	1 to 11°	0.1°	1/ea	\$70.30
T107-260	ASTM 52HL	9 to 21°	0.1°	1/ea	\$70.30
T107-266	ASTM 53HL	19 to 31°	0.1°	1/ea	\$70.30
T107-272	ASTM 54HL	29 to 41°	0.1°	1/ea	\$70.30
T107-278	ASTM 55HL	39 to 51°	0.1°	1/ea	\$70.30
T107-284	ASTM 56HL	49 to 61°	0.1°	1/ea	\$70.30
T107-290	ASTM 57HL	59 to 71°	0.1°	1/ea	\$70.30
T107-296	ASTM 58HL	69 to 81°	0.1°	1/ea	\$70.30
T107-302	ASTM 59HL	79 to 91°	0.1°	1/ea	\$70.30
T107-308	ASTM 60HL	89 to 101°	0.1°	1/ea	\$70.30

Spirit Filled Thermometers

Part No.	ASTM No.	API Range	Divisions	Qty	List
T107-225	ASTM 41HL	15 to 23°	0.1°	1/ea	\$70.30
T107-231	ASTM 42HL	22 to 30°	0.1°	1/ea	\$70.30
T107-237	ASTM 43HL	29 to 37°	0.1°	1/ea	\$70.30
T107-243	ASTM 44HL	36 to 44°	0.1°	1/ea	\$70.30
T107-249	ASTM 45HL	43 to 51°	0.1°	1/ea	\$70.30
T107-255	ASTM 51HL	1 to 11°	0.1°	1/ea	\$70.30
T107-261	ASTM 52HL	9 to 21°	0.1°	1/ea	\$70.30
T107-267	ASTM 53HL	19 to 31°	0.1°	1/ea	\$70.30
T107-273	ASTM 54HL	29 to 41°	0.1°	1/ea	\$70.30
T107-279	ASTM 55HL	39 to 51°	0.1°	1/ea	\$70.30
T107-285	ASTM 56HL	49 to 61°	0.1°	1/ea	\$70.30
T107-291	ASTM 57HL	59 to 71°	0.1°	1/ea	\$70.30
T107-297	ASTM 58HL	69 to 81°	0.1°	1/ea	\$70.30
T107-303	ASTM 59HL	79 to 91°	0.1°	1/ea	\$70.30
T107-309	ASTM 60HL	89 to 101°	0.1°	1/ea	\$70.30

+30 / 180°F Thermometer 380 mm Length

Part No.	ASTM No.	API Range	Divisions	Qty	List
T107-226	ASTM 41HM	15 to 23°	0.1°	1/ea	\$70.30
T107-232	ASTM 42HM	22 to 30°	0.1°	1/ea	\$70.30
T107-238	ASTM 43HM	29 to 37°	0.1°	1/ea	\$70.30
T107-244	ASTM 44HM	36 to 44°	0.1°	1/ea	\$70.30
T107-250	ASTM 45HM	43 to 51°	0.1°	1/ea	\$70.30
T107-256	ASTM 51HM	1 to 11°	0.1°	1/ea	\$70.30
T107-262	ASTM 52HM	9 to 21°	0.1°	1/ea	\$70.30
T107-268	ASTM 53HM	19 to 31°	0.1°	1/ea	\$70.30
T107-274	ASTM 54HM	29 to 41°	0.1°	1/ea	\$70.30
T107-280	ASTM 55HM	39 to 51°	0.1°	1/ea	\$70.30
T107-286	ASTM 56HM	49 to 61°	0.1°	1/ea	\$70.30
T107-292	ASTM 57HM	59 to 71°	0.1°	1/ea	\$70.30
T107-298	ASTM 58HM	69 to 81°	0.1°	1/ea	\$70.30
T107-304	ASTM 59HM	79 to 91°	0.1°	1/ea	\$70.30
T107-310	ASTM 60HM	89 to 101°	0.1°	1/ea	\$70.30

+60 / 220°F Thermometer 380 mm Length

Part No.	ASTM No.	API Range	Divisions	Qty	List
T107-222	ASTM 41HH	15 to 23°	0.1°	1/ea	\$70.30
T107-228	ASTM 42HH	22 to 30°	0.1°	1/ea	\$70.30
T107-234	ASTM 43HH	29 to 37°	0.1°	1/ea	\$70.30
T107-240	ASTM 44HH	36 to 44°	0.1°	1/ea	\$70.30
T107-246	ASTM 45HH	43 to 51°	0.1°	1/ea	\$70.30
T107-252	ASTM 51HH	1 to 11°	0.1°	1/ea	\$70.30
T107-258	ASTM 52HH	9 to 21°	0.1°	1/ea	\$70.30
T107-264	ASTM 53HH	19 to 31°	0.1°	1/ea	\$70.30
T107-270	ASTM 54HH	29 to 41°	0.1°	1/ea	\$70.30
T107-276	ASTM 55HH	39 to 51°	0.1°	1/ea	\$70.30
T107-282	ASTM 56HH	49 to 61°	0.1°	1/ea	\$70.30
T107-288	ASTM 57HH	59 to 71°	0.1°	1/ea	\$70.30
T107-294	ASTM 58HH	69 to 81°	0.1°	1/ea	\$70.30
T107-300	ASTM 59HH	79 to 91°	0.1°	1/ea	\$70.30
T107-306	ASTM 60HH	89 to 101°	0.1°	1/ea	\$70.30



API Hydrometers*API - Plain Form**6" Length*

Part No.	API Range	Divisions	Qty	List
T107-369	10 to 45	1.0	1/ea	\$39.07
T107-372	-1 to 11	0.2	1/ea	\$39.07
T107-375	9 to 21	0.2	1/ea	\$39.07
T107-378	19 to 31	0.2	1/ea	\$39.07
T107-381	29 to 41	0.2	1/ea	\$39.07
T107-384	39 to 51	0.2	1/ea	\$39.07
T107-387	49 to 61	0.2	1/ea	\$39.07
T107-390	59 to 71	0.2	1/ea	\$39.07
T107-393	69 to 81	0.2	1/ea	\$39.07
T107-396	79 to 91	0.2	1/ea	\$39.07

*API - Combined Form**0 to 150°F Thermometer 7.5" Length*

Part No.	API Range	Divisions	Qty	List
T107-370	10 to 45	1.0	1/ea	\$66.77
T107-373	-1 to 11	0.2	1/ea	\$66.77
T107-376	9 to 21	0.2	1/ea	\$66.77
T107-379	19 to 31	0.2	1/ea	\$66.77
T107-382	29 to 41	0.2	1/ea	\$66.77
T107-385	39 to 51	0.2	1/ea	\$66.77
T107-388	49 to 61	0.2	1/ea	\$66.77
T107-391	59 to 71	0.2	1/ea	\$66.77
T107-394	69 to 81	0.2	1/ea	\$66.77
T107-399	79 to 91	0.2	1/ea	\$66.77

+20 to 130°F Thermometer 7.5" Length

Part No.	API Range	Divisions	Qty	List
T107-602	10 to 45	1.0	1/ea	\$70.30
T107-603	45 to 90	1.0	1/ea	\$70.30
T107-604	10 to 30	0.5	1/ea	\$70.30
T107-605	20 to 40	0.5	1/ea	\$70.30
T107-606	30 to 50	0.5	1/ea	\$70.30
T107-607	40 to 60	0.5	1/ea	\$70.30
T107-608	50 to 70	0.5	1/ea	\$70.30
T107-609	60 to 80	0.5	1/ea	\$70.30
T107-610	70 to 90	0.5	1/ea	\$70.30
T107-611	80 to 100	0.5	1/ea	\$70.30

0 to 150°F Thermometer 15" Length

Part No.	API Range	Divisions	Qty	List
T107-612	10 to 45	0.5	1/ea	\$70.30
T107-616	45 to 90	0.5	1/ea	\$70.30
T107-620	10 to 30	0.2	1/ea	\$70.30
T107-623	20 to 40	0.2	1/ea	\$70.30
T107-625	30 to 50	0.2	1/ea	\$70.30
T107-627	40 to 60	0.2	1/ea	\$70.30
T107-629	50 to 70	0.2	1/ea	\$70.30
T107-631	60 to 80	0.2	1/ea	\$70.30
T107-635	70 to 90	0.2	1/ea	\$70.30
T107-637	80 to 100	0.2	1/ea	\$70.30

ASTM Soil Analysis Hydrometers*Soil Analysis Hydrometers*

Part No.	ASTM No.	API Range	Divisions	Test	Qty	List
T107-367	ASTM 151H	0.995 to 1.038	0.001°	Specific Gravity	1/ea	\$65.12
T107-368	ASTM 152H	-5 to 60 grams	1.0°	Grams of Soil Colloids	1/ea	\$62.47

Also Available:

ASTM Specific Gravity, ASTM Density plain and combined form,
 Specific Gravity plain, combined and sets,
 Dual Scale Specific Gravity & Baume plain form,
 Petroleum Gold Precision ASTM/API,
 Alcohol, Balling, Brix, Lactometer Quevenne,
 Propylene Glycol and Salt Brine.

Specific Gravity Plastic Hydrometer

Plastic Hydrometers are fabricated from polycarbonate (PC) which makes the instrument shatterproof, while offering glass-like clarity for ease of reading.

Range: 1.000 to 1.220
 Divisions: 0.002
 Length: 300mm



Part No.	Description	Qty	List
T106-525	Specific Gravity Plastic Hydrometer	1/ea	\$101.16

Specific Gravity ASTM/API Hydrometer

Superior brand of high precision hydrometers calibrated to the highest standard that exceeds ASTM Standards.

Form: Plain
 Divisions: 0.002
 Length: 300mm



Part No.	Range	Division	Length	Qty	List
T107-450	1.000 to 1.220	0.002	300mm	1/ea	\$32.63
T107-456	1.400 to 1.620	0.002	300mm	1/ea	\$32.63
T107-465	1.000 to 2.000	0.002	300mm	1/ea	\$32.63
T107-475	1.000 to 1.225	0.005	150mm	1/ea	\$32.63

Alcohol Hydrometer Dual Scale Proof & Tralle

Proof Scale measures the percent of alcohol by volume multiplied by 2. The Tralle Scale measures the percent of alcohol by weight in water. Internal Revenue Specification Proof Scales. Suitable for certification.

Tralle Scale: 0 to 100%
 Division: 1%
 Proof Range: 0 to 200%
 Division: 2%
 Form: Plain
 Length: 300mm



Part No.	Description	Qty	List
T107-401	Dual Scale Proof & Tralle	1/ea	\$32.63

Hydrometer Accessories

Graduated Polypropylene Cylinders

Feature permanently molded graduations that will not fade after repeated autoclaving. Meets stringent international quality criteria according to ISO 6706. The T107-705 is a strong, accurate glass measuring cylinder, graduated in durable blue enamel with spout & hexagonal bumper guards.



Part No.	Material	O.D. x Height	Capacity	Graduated	Qty	List
T107-700	PP	56 x 360mm	500mL	Yes	1/ea	\$31.23
T107-184	PP	54 x 190mm	250mL	Yes	1/ea	\$36.42
T107-705	Glass	50 x 380mm	500mL	Yes	1/ea	\$117.21
T107-707	Glass	50 x 375mm	600mL	No	1/ea	\$78.16
T107-704	Glass	65 x 450mm	1200mL	No	1/ea	\$99.00

Hydrometer Storage / Transport Case

Storage For 4 Hydrometers 15". Foam Base To Protect Hydrometer Body. 4 Foam Collars To Protect Hydrometer Stem. Foam Cover To Protect Top Of Hydrometer Stem. Sturdy Zippered / Slide Open Plastic Case. Rope Handle For Carrying Or Hanging. Hydrometer Storage / Transport Case.



Part No.	Description	Qty	List
T106-784	Storage/Transport Case	1/ea	\$60.70

Hydrometer Cylinder w/Overflow Cup

Translucent polypropylene 500ml. Molded graduations. Overall Dimensions: 1" I.D. x 12" high (38 x 305mm) Base is 4 1/4" (108 mm) in diameter.



Part No.	Description	Qty	List
R650-005	Cylinder w/Cup	1/ea	\$72.35

**Other Hydrometers are Available
 Contact us for more options!**



HYGROMETERS

Pocket Hygrometer/Thermometer

Temperature Range: 0/50°C (-32/120°F)
 Humidity Range: +20/100% RH
 Accuracy: ±0.5° C & F and ±4% Mid Range ±6% Elsewhere
 Resolution: 0.1 Temperature and Relative Humidity
 Minimum/Maximum Temperature and Humidity Memory Recalling
 Fahrenheit/Celsius Selectable
 Rubber Coated
 Plastic Storage Case Included
 LCD Display: 2 ¼ x ½"
 Dimensions: 6 ½ x 1 ½"
 Low Battery Indicator; Battery Included



Part No.	Description	Qty	List
T106-555	Pocket Hygrometer/Thermometer	1/ea	\$53.61

Pocket Dew Point Hygrometer/Thermometer

Temperature Range: -40/70°C (-40/158°F)
 Dew Point Range : -40/70°C (-40/158°F)
 Humidity Range: 0 to 100% RH
 Wet Bulb Reading
 Accuracy: ±0.5° C & F and ±3% 20% to 90%, ±4% Elsewhere
 Resolution: 0.1 Dew Point, Temperature and Relative Humidity
 Minimum/Maximum Temperature and Humidity Memory Recalling
 Hold Function
 Fahrenheit/Celsius Selectable
 LCD Display: 2 ¼ x ½"
 Dimensions: 6 ½ x 2 ½"
 Low Battery Indicator; Battery Included



Part No.	Description	Qty	List
T106-716	Pocket Dew Point Hygrometer/Thermometer	1/ea	\$159.58

Hygrometer/Thermometer with Alarm

Hi-Low Audible and Visual Alarm for All Parameters
 Temperature Range: -40° to 70°C (-40° to 158°F)
 Dew Point Range: -40° to 70°C (-40° to 158°F)
 Humidity Range: 0 to 99% RH
 Indication of Dew Point Temperature
 Wet Bulb Temperature Reading
 Accuracy: ±0.5° C & F ±4% 20% to 80% ± 7% Elsewhere
 Resolution: 0.1 Dew Point, Temperature and Relative Humidity
 Minimum/Maximum Temperature and Humidity Memory Recalling
 Fahrenheit/Celsius Selectable
 Dimensions: 4 x 4 x 1 ½"
 Low Battery Indicator; Battery Included



Part No.	Description	Qty	List
T106-732	Hygrometer/Thermometer with Alarm	1/ea	\$96.61

Don't forget about your Hydrometer racks!



Large Digit Internal/External Thermometer w/ Hygrometer

Internal / External Thermometer & Hygrometer
 Simultaneous Display of Internal / External Temp & Humidity
 Minimum, Maximum Memory Recalling Function
 Temperature Range: -10° to 70°C (-14° to 140°F)
 Humidity Range: +10 to 100% RH
 Accuracy: ± 1.0°C & 1.8°F and ±2% Mid Range ± 4% Elsewhere
 Resolution: 0.1 Temperature and 1.0% Relative Humidity
 Fahrenheit/Celsius Selectable
 1.5 Meter Cable & Probe for Outdoor Temperature & Humidity
 Flip-out Stand or Hanging
 Low Battery Indicator; Battery Included



Part No.	Description	Qty	List
T106-715	Large Digit Internal/External Thermometer w/ Hygrometer	1/ea	\$86.00

Large Digit Thermometer/Hygrometer With Alarm Clock

12 / 24 Hour Format Alarm Clock
 Display size 79(W) x 66(H) mm
 Minimum, Maximum Memory Recalling Function
 Temperature Range
 Internal Sensor: 0° to 50°C (+32° to 122°F)
 External Sensor: -50° to +70°C (-58° to 158°F)
 Temp Accuracy: ±1°C (±1.8°F)
 Humidity Range: 1% to 100%RH
 Humidity Accuracy: ±5%RH
 Fahrenheit/Celsius Selectable
 10 Second Display Refresh
 Flip-out Stand or Hanging
 1.5v AAA Battery Included



Part No.	Description	Qty	List
T106-554	Large Digit Thermometer/Hygrometer With Alarm Clock	1/ea	\$65.74

Linear Environment Temperature/Humidity Monitoring Station

The Linear Environment Station can monitor local temperature and humidity PLUS receive up to 3 outdoor temperatures / transmitters.
 LCD displays temp and humidity, w/comfort level
 Local/remote temperature min/max memory w/time stamp
 Temperature display In °C or °F
 Rh% with min/max memory
 Wireless monitor up to 3 remote transmitters
 Transmission at 868 Mhz - max distance 300' (100 M)
 Relative atmospheric pressure with adjustable reference value
 Graphic display of relative air pressure for last 12 hours
 Weather forecasting with weather tendency Indicator
 Radio controlled clock, date, time zone
 12/24 hour time display; time zone option ±12 hours
 Weekday and day calendar display



Part No.	Description	Qty	List
T106-669	Linear Environment Temperature/Humidity Monitoring Station with 1 wireless remote temperature sensor	1/ea	\$186.51

24/7 Environment Monitoring System w/Alarm Hygrometer / Thermometer

Full Time multi-function, environmental monitoring, system that measures humidity, temperature and dew point.
 Large easy-to-read LCD and Audibale Alarm when limits have been exceeded.
 NIST Traceable
 LCD displays Humidity and Temperature
 3% RH Humidity Accuracy
 Min / Max Value Monitor
 Audible & Visual Alarms With Set Points
 Desk or Wall Mount
 On-Site Calibration (with optional extension cable & standard calibration cell)



Part No.	Description	Qty	List
T107-169	24/7 Environment Monitoring System w/ Alarm	1/ea	\$168.02



METERS - ELECTROCHEMISTRY

Benchtop Meters

pH 700 Benchtop Meter

The easy-to-use, microprocessor-based pH 700 benchtop meter measures pH, mV, relative mV and temperature. The large, dual-display LCD provides excellent visibility—even from a distance. Automatic temperature compensation (ATC) maintains reading accuracy even with fluctuating temperatures. Five-point pH calibration with automatic buffer recognition for both USA (pH 1.68, 4.01, 7.00, 10.01, 12.45) and NIST (pH 1.68, 4.01, 6.86, 9.18, 12.45) pH buffers, makes for easy calibration no matter which requirement you need to meet. Meter features HOLD, ATC and electrode diagnostics. The convenient pull-out quick reference card keeps procedures handy at all times.

Meter accepts any pH or ORP electrodes with a BNC connector.

Measures:	pH, mV & Temperature (°C or °F)
pH Range:	0.00 to 14.00
mV Range:	±2000
Temperature Range:	32 to 212°F (0.0 to 100.0°C)



Part No.	Description	Qty	List
M542-001	pH 700 Benchtop Meter	1/ea	\$820.50

A111 pH Benchtop Meter

The easy-to-use and budget-friendly instrument for basic pH analysis in the lab. Perform up to a three point pH calibration with easy recall of calibration points and slope. Quickly navigate setup menus and ensure consistent calibrations using the simple keypad layout and on-screen text prompts. Use the included electrode stand to easily place sensors in samples and simplify storage to minimize breakage.

pH Range:	-2.00 to 16.00
mV Range:	±1600.0
Temperature Range:	-5.0 to 105.0°C (22.0 to 221.0°F)



Part No.	Description	Qty	List
M300-547	A111 pH Benchtop Meter	1/ea	\$670.80

CON 700 Benchtop Meter

Compact size frees up bench space.

Large brightly lit display allows for easy reading of measured values.

Easily toggle between conductivity and TDS at the touch of a button!

CON 700 meter reads 0 to 199.9 mS across five ranges—autoranging feature automatically gives the best resolution for your measurements. Calibrate at up to five conductivity points (one per range) for improved measurement accuracy. Adjustable temperature coefficient provides additional accuracy. Cell constant is selectable for very high or low range measurements - meter is flexible to your application. Selectable manual or automatic temperature compensation gives greater precision.

Meter is encased in a compact 6-1/8" L x 6-7/8" W x 2-3/4" housing which takes up a minimum of bench space. Water-resistant membrane keypad and convenient pullout reference guide provides useful features for the lab. Large dual display shows conductivity or TDS, temperature and has a "ready" indicator and HOLD function.

Measures:	Conductivity, TDS and temperature (°F or °C)
Conductivity Range:	0.00 uS/cm to 200.0 mS/cm
Conductivity Resolution:	0.01 uS; 0.1 uS; 1 uS; 0.01 mS; 0.1 mS
Conductivity Accuracy:	±1% full scale
Conductivity Calibration:	Automatic (4 points); max. 1 per range; manual (5 points); max. 1 per range
TDS Range:	0.0 to 100 ppt @ 0.5 TDS factor (to 200 ppt @ 1.0 TDS factor)
TDS Resolution:	0.01 ppm; 0.1 ppm; 1 ppm; 0.01 ppt; 0.1 ppt
TDS Accuracy:	±1% full scale
TDS Calibration:	Up to 5 points
Temperature Range:	0.0 to 100.0°C / 32.0 to 212.0°F
Temperature Resolution:	0.1°C
Temperature Accuracy:	±0.5°C / ±0.9°F
Temperature Calibration:	Offset in 0.1° increments; offset range: ±5°C / 9°F
Memory:	Up to 100 data sets
Cell Constant:	0.1, 1.0, 10.0 (selectable)
Temperature Coefficient:	0.00 to 10.00%
Dimensions:	6 1/8 x 6 7/8 x 2 3/4" (15.5 x 17.5 x 6.9 cm)



Part No.	Description	Qty	List
M541-350	CON 700 Benchtop Meter	1/ea	\$997.50

Orion Star™ A211 pH Benchtop Meters

Record accurate and reliable pH, mV, ORP and temperature measurements with the Thermo Scientific™ Orion™ Star A211 pH Benchtop Meter, ideal for a wide range of applications and advanced pH analysis in the lab. Perform up to a five point pH calibration, log up to 2000 data point sets with time / date stamp and easily transfer calibration and data logs via USB or RS232 to a printer or computer with free downloadable Orion™ Star Com software. Use the included electrode stand to easily place sensors in samples and simplify storage to minimize breakage. 3 year Manufacturers warranty.



Thermo Scientific Orion™ Star A211 pH benchtop meters are easy to use, dependable laboratory meters with advanced features and functions. Selectable read modes and stability indicator give you flexibility and control over your testing. All critical data is shown with your measurements including temperature, date and time, read type, measurement stability, active calibration information and electrode condition icon. Onscreen calibration and setup instructions can be displayed in several local languages with new languages added through software updates.

Navigation is fast and simple due to the comprehensive keypad with menu-specific function keys, dual purpose scroll/shortcut keys, plus power, measure, log view and stirrer keys that ensure easy operation. All setup menus are in one location with direct access using a single shortcut key so you can quickly access, evaluate and change measurement and instrument settings.

Measure pH, mV, relative mV or ORP with temperature

Perform up to a five point pH calibration using automatic buffer recognition of NIST or DIN buffer groups with choice to manually enter custom buffer values

Calibration editing option allows individual points to be fixed without a full recalibration

Informative, easy-to-read backlit graphic display with clear onscreen instructions simplifies operation

Capture your critical readings with measurement stability indicator and selectable read modes – Auto-Read holds a stable reading, Continuous shows changing readings with hold option and Timed logs data at specific intervals

Eliminate the need for magnetic stir bars using the meter-controlled stirrer probe (catalog number M300-048) to uniformly mix solutions

Data log collects and date/time stamps up to 2000 measurement sets with optional sample ID and user ID

Calibration log stores ten most recent calibrations

Non-volatile meter memory ensures your data and settings are protected, even with loss of power

Orion Star™ Com software facilitates data transfer to a computer via USB or RS232 connections

Flexible power options with universal power adapter or optional AA batteries

IP54-rated housing resists dust and splashes and can be wall-mounted if table space is limited

Meters include CE, TUV 3-in-1 and FCC Class A certifications and 3-year replacement warranty

M300-562: Includes Star A211 pH meter, electrode stand, universal power adapter, literature CD, printed quick start guide, computer interface cable and meter test certificate.

M300-563: Includes Star A211 pH meter, M300-284 ROSS Sure-Flow glass-body pH electrode, M300-347 stainless steel ATC probe, M300-071 ROSS pH buffer and solution kit, electrode stand, universal power adapter, literature CD, printed quick start guide, computer interface cable A.

M300-566: Includes Star A211 pH meter, M300-330 Triode epoxy-body pH/ATC electrode, M300-110 pH buffer and solution kit, electrode stand, universal power adapter, literature CD, printed quick start guide, computer interface cable and meter test certificate.

Part No.	Description	Qty	List
M300-562	A211 pH Benchtop Meter w/ Stand	1/ea	\$1042.45
M300-563	Kit w/ ROSS Sure-Flow pH Electrode, ATC Probe, Solutions & Stand	1/ea	\$1513.40
M300-566	Kit w/ General Purpose pH/ATC Electrode, Solutions & Stand	1/ea	\$1264.43



M300-562

Temperature Range:	22.0° to 221.0°F (-5.0° to 105.0°C)
Temperature Probe Calibration:	1 point temperature offset calibration
Weight:	2 lb. (0.9kg)
Temperature Selection:	Manual or automatic with ATC temperature probe
AC Adapter:	Universal 50-60 Hz, 100-240 VAC power adapter (Part No. M300-206)
Accuracy / Range (pH):	±0.002pH / -2.000 to +20.000
Accuracy / Range (mV):	±0.2 mV or ±0.05% of reading whichever is greater / ±2000.0mV
Accuracy (Temperature):	±0.1°C
Dimensions (L x W x H):	24 x 18 x 11cm (9.5 x 7.1 x 4.3")
Data Points:	2000 with date and time stamp
Display Type:	LCD (Graphic with backlight)
Inputs:	BNC (pH or ORP electrode), pin-tip (reference electrode), 8 pin MiniDIN (ATC temperature probe), stirrer input (stirrer probe)
Isopotential Point:	7.000pH
Measurement Modes:	pH, mV, relative mV (RmV) or ORP with temperature
Outputs:	USB, RS-232
Probe Type:	pH electrode, ORP electrode, reference half-cell electrode, ATC temperature probe, stirrer probe (purchase separately)
Range (ORP):	±2000.0mV
Range (Relative mV):	±2000.0mV
Relative Humidity Range:	5 to 85%, non-condensing

M300-563

Temperature Range:	22.0 to 221.0°F (-5.0 to 105.0°C)
Weight:	2 lb. (0.9kg)
Temperature Selection:	Manual or automatic with ATC temperature probe
AC Adapter:	Universal 50-60 Hz, 100-240 VAC power adapter (Part No. M300-206)
Accuracy / Range (pH):	±0.002pH / -2.000 to +20.000
Accuracy / Range (mV):	±0.2 mV or ±0.05% of reading whichever is greater / ±2000mV
Alarm Output:	High/low limit alarm, calibration due alarm
Accuracy (Temperature):	±0.1°C
Dimensions (L x W x H):	24 x 18 x 11cm (9.5 x 7.1 x 4.3")
Data Points:	2000 with date and time stamp
Display Type:	LCD (Graphic with backlight)
Inputs:	BNC (pH or ORP electrode), pin-tip (reference electrode), 8 pin MiniDIN (ATC temperature probe), stirrer input (stirrer probe)
Isopotential Point:	7.000pH
Measurement Modes:	pH, mV, relative mV (RmV) or ORP with temperature
Outputs:	USB, RS-232
Probe Type:	pH electrode, ORP electrode, reference half-cell electrode, ATC temperature probe, stirrer probe (includes M300-284 ROSS Sure-Flow pH electrode and M300-347 ATC probe)
Range (ORP):	±2000.0mV
Relative Humidity Range:	5 to 85%, non-condensing

M300-566

Temperature Range:	22.0 to 221.0°F (-5.0 to 105.0°C)
Weight:	2 lb. (0.9kg)
Temperature Selection:	Manual or automatic with ATC temperature probe
AC Adapter:	Universal 50-60 Hz, 100-240 VAC power adapter (Part No. M300-206)
Accuracy / Range (pH):	±0.002pH / -2.000 to +20.000
Accuracy / Range (mV):	±0.2 mV or ±0.05% of reading whichever is greater / ±2000mV
Accuracy (Temperature):	±0.1°C
Dimensions (L x W x H):	24 x 18 x 11cm (9.5 x 7.1 x 4.3")
Data Points:	2000 with date and time stamp
Display Type:	LCD (Graphic with backlight)
Inputs:	BNC (pH or ORP electrode), pin-tip (reference electrode), 8 pin MiniDIN (ATC temperature probe), stirrer input (stirrer probe)
Isopotential Point:	7.000pH
Measurement Modes:	pH, mV, relative mV (RmV) or ORP with temperature
Outputs:	USB, RS-232
Probe Type:	pH electrode, ORP electrode, reference half-cell electrode, ATC temperature probe, stirrer probe (includes M300-330 Triode pH/ATC electrode)
Range (ORP):	±2000.0mV
Relative Humidity Range:	5 to 85%, non-condensing

TruLab pH/ISE 1320P

Laboratory Instrument for pH, mV (ORP) and Ion Activity Measurement

Measure pH, ORP and ion activity with the TruLab 1320 dual channel instrument by choosing from our wide selection of electrodes. Data can be conveniently printed from the instrument via the optional integrated printer.

EPA approved for drinking water and wastewater compliance reporting.

Instrument Only. Cables, probes/sensors and accessories sold separately.

Simultaneous dual measurement of pH, mV (ORP) or ISE and temperature (2-channel benchtop meter)

AutoRead function improves repeatability.

Easy-to-read backlit display with text menu for easy operation for pH, mV (ORP), ISE and temperature.

Fast data transfer via USB in .csv or ASCII format or the optional integrated printer.

Easy calibration with adjustable calibration timer, automatic or manual temperature compensation.

1, 2, 3, 4 or 5 point calibration for pH.

1, 2, 3, 4, 5, 6 or 7 point calibration for ISE, also non-linear.

BNC connection for pH, mV and ISEs; banana connection for temperature probes.

Continuous Monitoring Control (CMC) function for monitoring the ideal measuring range for pH measurements based on the last calibration.

GLP/AQA compliant.

PC software, USB cable and electrode stand included.

EPA Approved Methodology

In addition to pH, the TruLab 1320 can be used for compliance reporting of Ammonia (wastewater), Bromide (wastewater), Chloride (wastewater), Cyanide (wastewater and drinking water), Fluoride (wastewater and drinking water), Nitrate (wastewater and drinking water), Potassium (wastewater) and Sulfide (wastewater).

Repeatable/Efficient

The instrument's AutoRead function indicates when a stable measurement is reached improving repeatability.

An adjustable timer indicates when to perform the next calibration routine, improving measurement accuracy.

Certifications: cETLus, electrical protective class III, CE, IP43

Equipment used with: TruLab analog pH/mV/ISE/temp probes

GLP Compliance: Yes

Graphic Display: Backlit graphic display

Logging Capabilities: Yes

Measurement Method / Channels: 2 Channel

Measurement Range:

Ranges Resolutions Accuracy (+1 digit) pH -2.0 to 20.0; -2.00 to 20.00; -2.000 to 19.999 0.1; 0.01; 0.001 ±0.1; ±0.01; ±0.005 (temp of test sample 15 to 35°C; within a range of ±2 pH of the calibration point) mV -1200 to 1200.0; -2500 to 2500 0.1; 1.0 ±0.3; ±1.0 (temp of test sample 15 to 35°C) ISE (mg/l, mg/kg, mmol/l, ppm, %) (µmol/l) 0.000 to 9.999; 10.00 to 99.99; 100.0 to 999.9; 1000 to 999999 0.000 to 9.999; 10.00 to 99.99; 100.0 to 999.9; 1000 to 9999 0.001; 0.01; 0.1; 1 Temperature -5 to 105°C (23.0 to 221°F) 0.1 ±0.1

Memory: 5,000 data sets auto logging, 500 data sets manual logging

Operating pH Range: -2.00 to 20.00, -2.0 to 20.0, -2.000 to 19.999

Operating Temperature: -5 to 105°C, 23.0 to 221°F

Parameters Measured: pH, ORP (mV), Ammonia, Ammonium, Bromide, Cadmium, Calcium, Chloride, Copper, Cyanide, Fluoride, Iodide, Lead, Nitrate, Potassium, Silver/Sulfide, Sodium, Temperature

Power: Approximately 150 hours with illumination or 1000 without, 4 alkaline AA batteries fully charged or included

universal power supply

Sampling: Yes

Storage Temperature: -25 to 65°C, -13 to 149°F

Unit of Measure: Sample addition, Known addition (double), Known subtraction, ISE Measurements: Blank value correction, Increment methods: Known addition (single), Sample subtraction

User Calibratable: Yes

User Replaceable: Yes

Warranty: 3 years



Part No.	Description	Qty	List
M590-690	Instrument Only	1/ea	\$2243.75

Wide selection of electrodes - pH, ORP, ISE and temperature probes available.



Handheld Meters

Waterproof, Double Junction pHTestr® 30

Our most popular pH pen has upgraded to a larger LCD display with both pH and temperature values. Accuracy is also increased to ± 0.01 pH. The double junction electrodes results in longer life in "dirty" water samples. The meter also features 3 point calibration, automatic temperature compensation (ATC) and is waterproof.

Range: -1.0 to 15.0 pH
Resolution: 0.01 pH

Part No.	Description	Qty	List
M542-257	Waterproof Double Junction pHTestr® 30	1/ea	\$188.66



pH 5+ Portable Meter

The microprocessor-based pH 5+ meter is one of the most economical portable pH meter, yet it gives you the same high accuracy and reliability of our other portable meters! Use this meter to take routine pH and temperature measurements. Meter includes a protective rubber boot that also acts as a meter stand.

Measures: pH (°C)
pH Range: 0.00 to 14.00
ATC: Manual or Automatic from 0.00 to 100.0°C

Part No.	Description	Qty	List
M542-157	pH 5+ Portable Meter	1/ea	\$423.00



Thermo Scientific™ Orion Star™ A324 pH/ISE Portable Multiparameter Meter

Get high accuracy and premium performance everywhere you need it with the Thermo Scientific™ Orion™ Star A324 pH and ISE Portable Meter, designed for a wide range of pH, ion concentration, mV, ORP and temperature testing and field applications. Evaluate samples in the most demanding locations using this waterproof meter with IP67-rated housing. Perform up to five point pH and ISE calibrations, log up to 5000 data point sets with time / date stamp and easily transfer calibration and data logs via USB or RS232 to a printer or computer with free downloadable Orion™ Star Com software.

pH Range: -2.000 to 20.000
mV Range: ± 2000.0
ISE Range: 0.001 to 19900 with selectable units of ppm, Molar, mg/L, %, ppb or none
Temperature Range: -5.0 to 105.0°C (22.0 to 221.0°F)

Part No.	Description	Qty	List
M300-600	pH/ISE Portable Multiparameter Meter	1/ea	\$1282.83



Waterproof pH 450 Meter

The pH 450 meter offers an IP67-rated waterproof housing, making it ideal for the manufacturing floor, field testing and the laboratory. The large, backlit LCD lets you view the main measurement simultaneously with temperature and calibration data with % slope. Calibrate pH and ISE with up to six points from USA, NIST, DIN, PWB and custom pH buffers. Automatic temperature compensation (ATC) ensures measurement accuracy even in fluctuating temperatures. Select temperature reading from degree C or degree F to suit your application. Meter features include ready (stability) indicator, smart averaging, hold function, calibration alarm (visible), battery-life indicator and electrode status. Perform data logging with manual or timed collection of up to 500 data sets with real-time clock time/date stamp. Order optional data cables for USB or RS-232 connectivity.

Measures: pH, ISE, mV & Temperature (°C & °F)
pH Range: -2.00 to 16.00
mV Range: ± 2000
Ion Range: 0.0 to 19999
Temperature Range: -10.0 to 100.0°C

Part No.	Description	Qty	List
M542-836	Waterproof pH 450 Meter	1/ea	\$931.50



Orion Star™ A121 pH Portable Meter

Take simple, routine pH, mV and temperature measurements with the Thermo Scientific™ Orion™ Star A121 pH Portable Meter, an easy-to-use and budget-friendly instrument for basic pH analysis in the field. Perform up to a three point pH calibration with easy recall of calibration points and slope. Quickly navigate setup menus and ensure consistent calibrations using the simple keypad layout and on-screen text prompts. This waterproof meter has an IP67-rated housing for rugged protection in outdoor environments.



Part No.	Description	Qty	List
M300-555	Orion Star A121 pH Portable Meter	1/ea	\$620.57

M300-556 Orion Star A121 pH Portable Meter Kit

Includes: Star A121 pH meter, M300-309 Orion Triode gel-filled epoxy-body pH/ATC electrode, M300-125 pH buffer and solution kit, protective meter armor, hard-sided field case, 4 AA batteries, literature CD, printed quick start guide and meter test certificate.

Part No.	Description	Qty	List
M300-556	Orion Star A121 pH Portable Meter Kit	1/ea	\$1051.04

M300-555 Orion Star A121 pH Portable Meter

Resolution (Temperature):	0.1°C, 0.1°F
Temperature Range (English):	22.0° to 221.0°F
Temperature Range (Metric):	-5.0° to 105.0°C
Accuracy (pH):	±0.01pH
Accuracy (mV):	±0.2 mV or ±0.05% of reading whichever is greater
Accuracy (Temperature):	±0.1°C
Channels:	1
Data Points:	50
Display Type:	LCD
Resolution (pH):	0.1, 0.01
Range (pH):	-2.00 to 16.00
Includes:	Star A121 pH meter, 4 AA batteries, literature CD, printed quick start guide and meter test certificate
Inputs:	BNC (pH or ORP electrode), 8 pin MiniDIN (ATC temperature probe)
Measurement Modes:	pH, mV or relative mV (RmV) with temperature
Probe Type:	pH electrode, ORP electrode, ATC temperature probe (purchase separately)
Power Supply:	Universal AC adapter (included) or 4 AA batteries (sold separately)
Range (Relative mV):	±1999.9mV
Relative Humidity Range:	5 to 85%, non-condensing
Resolution (mV):	0.1mV
Range (mV):	±1600.0mV

Accessories

Orion™ Triode™ 3-in-1 pH/Automatic Temperature Compensation Probes

Operate the highly-versatile Thermo Scientific™ Orion™ Triode™ 3-in-1 pH/Automatic Temperature Compensation Probe in either the field or a plant. Contains a low-maintenance, gel-filled electrode with built-in ATC.

Material: epoxy body for ruggedness

pH range: 0 to 14

Temperature range: 0° to 90°C

Type reference: Ag/AgCl internal reference system, sealed reference

Junction: Wick

Part No.	Connections	Length Cable	Qty	List
M300-309	BNC Waterproof	1.5mm	1/ea	\$338.49



Check out
page 399 for information on Fox BrandBuffers!



Dissolved Oxygen, Conductivity, Salinity Instrument

The M591-217 provides everything you need in a handheld dissolved oxygen meter that automatically compensates for changes in salinity values. Rugged, simple and reliable. Measure DO, salinity, conductivity, specific conductance, TDS, barometric pressure and temperature.

EPA approved for drinking water and wastewater compliance reporting.

Instrument Only. Cables, probes/sensors and accessories sold separately.

User-replaceable sensors and cables and convenient Quick Cal feature makes it extremely user friendly.

Mil-spec (military spec) connectors, IP-67 waterproof and rubber over molded case and 1-meter drop tests ensure the instrument remains in your hands to provide years of sampling even in the harshest field conditions.

The feature set of the M591-217 results in a low total cost of ownership over the life of the product and proves that it is smarter, tougher and more versatile.

Fast response times with the Polarographic or Galvanic DO sensor allows you to complete your sampling routine quickly. The long life of the Polarographic sensor saves time and money and reduces your overall cost. The Galvanic sensor enables you to start sampling immediately without a warm-up period. Either sensor you choose for the field will give you accurate, quality data.

The super-stable 4-electrode conductivity cell is built into the cable and will provide years of accurate data. The cells are designed for rugged field performance and are easily cleaned and require minimal maintenance.

Additional features include:

- Internal barometer for highest accuracy
- Choose field DO sensors (Polarographic or Galvanic)
- Quick Cal allows DO calibrations within seconds with the push of a button
- Stores 50 data sets
- Graphic, backlit display and glow in the dark keypad
- Available with 1, 4, 10, 20 or 30-meter cables (4-meter and longer cables include cable management kit)
- View display with polarized sunglasses on
- Fastest DO response time on the market with 95% response in 8 seconds with standard membrane
- Multiple languages include English, Spanish, French and German
- User replaceable DO sensors and cables •Conductivity cell built-in
- 3-year instrument; 2-year cable warranty

When ordering the M591-217 you must order the instrument, cable and DO sensor separately, allowing you to choose the system that best fits your application. Conductivity is part of the cable you order and included in the cable purchase.



Part No.	Description	Qty	List
M591-217	Dissolved Oxygen, Conductivity, Salinity Instrument	1/ea	\$1199.41

Accessories

Part No.	Description	Qty	List
M590-458	Polarographic DO Sensor with Yellow Membrane Kit	1/ea	\$231.25
M590-457	Galvanic DO Sensor with Yellow Membrane Kit	1/ea	\$231.25
M590-908	DO, Conductivity and Temperature Cable Assembly	1/ea	\$790.71

Oakton PC 450 Waterproof Portable Meter with Combination Probe

Select meter with combination pH/conductivity/temperature probe; Intuitive, user-friendly icons—electrode status displays pH slope Grip-Clip™ electrode holder quickly and easily secures electrode to side of beaker or container (for use with separate pH and conductivity/ATC probes).

Memory of 500 data sets and USB or RS-232 output for transfer to PC

Extended battery life (500 hrs) or optional universal power adapter

Built-in stand with wall mount allows for easy benchtop measurement or storage

- | | |
|------------------------------|-----------------------------|
| Display type: | Backlit LCD |
| Min / Max pH (pH): | -2 / 16 |
| pH Resolution: | 0.01 |
| pH Accuracy: | ±0.01 |
| Min / Max mV (mV): | -2000 / 2000 |
| mV Resolution: | 0.1 or 1 mV |
| mV Accuracy: | ±0.5 |
| Max Conductivity / Accuracy: | 200 mS / ±1% FS |
| Min TDS: | 0 to 200 ppt |
| Min Salinity / Accuracy: | 0 to 50 ppt / ±1% FS |
| Max Temperature (° C): | 45 |
| Battery: | 2 x AA batteries (included) |



Part No.	Description	Qty	List
M542-842	Waterproof Portable Meter with Combination Probe	1/ea	\$1224.00

PROBES / ELECTRODES

pH & ORP Electrode

3ft cable, BNC Connector, 12mm Blue epoxy body & 10mL soaker bottle
 pH Range: 0 to 11
 Slope (pH 7 to 4 Buffer): 165 to 180 mV (93 to 102%) at 25°C
 Accuracy: ±0.03 pH unit
 Reference Solution: 4M KCl/AgCl (1E)
 Shipping cap Solution: 4M KCl/pH 4 Buffer (50/50)



Part No.	Description	Qty	List
E602-001	Epoxy Body Gel-Filled Electrode	1/ea	\$136.00

pH & ORP Electrode

3ft cable, BNC Connector, 8 Pin mini Din Connector, 12mm Gold epoxy body & 10mL soaker bottle
 pH Range: 0 to 14
 Slope (pH 7 to 4 Buffer): 165 to 180 mV (93 to 102%) at 25°C
 Accuracy: ±0.03 pH unit
 Reference Solution: 4M KCl/AgCl (1E)
 Shipping cap Solution: 4M KCl/pH 4 Buffer (50/50)



Part No.	Description	Qty	List
E602-220	Combo pH Single Junction w/ATC Tuff Tip	1/ea	\$277.52

pH & ORP Electrode

3ft cable, BNC Connector, 2.5mm Phone plug connector, 12mm Black epoxy body & 10mL soaker bottle
 pH Range: 0 to 14
 Slope (pH 7 to 4 Buffer): 165 to 180 mV (93 to 102%) at 25°C
 Accuracy: ±0.03 pH unit
 Reference Solution: 4M KCl/AgCl (1E)
 Shipping cap Solution: 4M KCl/pH 4 Buffer (50/50)



Part No.	Description	Qty	List
E602-221	Epoxy Body w/Soaker Bottle	1/ea	\$277.52

pH & ORP Electrode

3ft cable, D pin Connector, 12mm Glass body & 10mL soaker bottle
 Ref Potential in KCl Solution: 0 ± 10mV at 25°C (vs. AgCl Ref electrode)
 Operating Temp Range: 0 to 80°C
 Operating pressure Range: 0 to 30 psi at 25°C
 Reference Junction Resistance: < 50 Kohm at 25°C
 Shipping cap Solution: 4M KCl/pH 4 Buffer (50/50)



Part No.	Description	Qty	List
E602-921	Glass Body w/Soaker Bottle	1/ea	\$146.43

Orion™ ROSS™ Sure-Flow™ pH Electrode with Sure-flow Junction, BNC Connector

This general purpose pH electrode offers superior performance for dirty, difficult samples such as soils, sludges, colloids, viscous materials and organics. Junction cleans easily between measurements; pressing down on the cap allows filling solution to flow through the junction carries away any contamination that may interfere with measurement.

Material: Glass body
 pH range: 0 to 14
 Temperature range: 0° to 100°C
 Internal reference: ROSS
 Junction: Sure-Flow
 Dimensions: 120 x 12mm
 pH precision: 0.01
 Fill solution: 3M KCl, Part No. M300-069
 Cap diameter: 16mm
 Includes: Detachable bulb guard, two bottles of Orion ROSS electrode fill solution

Part No.	Description	Qty	List
M300-284	Sure-Flow™ pH Electrode	1/ea	\$668.40



Orion™ High-Performance Ammonia Electrode

Response time of 1 minute in sample concentrations of 1ppm and higher; fast results make it easy to combine functionality with autosamplers.

Keying feature on the electrode body prevents membrane from twisting or breaking during assembly

Choice of preassembled outer body with membrane cap or loose membranes

New wastewater applications developed using known addition and direct measurement techniques

EPA-compliant method

Includes: Waterproof BNC connector, 1m cable, 20 loose membranes, one preassembled outer body and membrane cap, two 60mL bottles of electrode filling solution, spout cap and tweezers

Connector:	Waterproof BNC
Diameter Body:	12mm
Filling Solution Type:	High performance ammonia electrode filling solution
Internal Reference:	Volatile amines
Length:	120mm
Length Cable:	1M
Material:	Epoxy
Temperature Operating:	32° to 122°F (0° to 50°C)



Part No.	Description	Qty	List
M300-373	Ammonia High Performance Ion Selective Electrode	1/ea	\$940.66

Orion™ Ammonia Gas Sensing ISE Electrodes

Get quick, reliable and accurate measurements of dissolved ammonia in aqueous solutions with the Thermo Scientific™ Orion™ Ammonia Gas Sensing ISE Electrode.

Connector Types:	Waterproof BNC
Length:	5.87" (15.1cm)
Length Cable:	29.5" (75cm)
Material:	Epoxy
Operating Range Ranges:	1.0 to 5 x 10E7M
Temperature Operating:	32° to 122°F (0° to 50°C)



Part No.	Description	Qty	List
M300-371	Ammonia Gas Sensing ISE Electrode	1/ea	\$900.19

Orion™ Fluoride Electrodes

Measure free fluoride ions in aqueous solutions quickly, simply, accurately and economically with the Thermo Scientific™ Orion™ Fluoride Electrodes. The Thermo Scientific™ Sure-Flow™ junction allows easy cleaning and is easy to use in tough samples. The half cell electrode requires a separate reference electrode. We recommend the reference electrode M300-096 to be used with the half cell electrodes M300-356 and M300-357.

Connector Types:	Waterproof BNC
Diameter Body:	0.51" (13mm)
Filling Solution Type:	M300-091 (M300-377); M300-078 with M300-096 single junction reference electrode (M300-356, M300-357)
Junction:	Free-flowing Sure-Flow junction assures stable, drift-free potentials
Length:	4.33" (110mm)
Length Cable:	39" (1m)
Material:	Epoxy
Temperature Operating:	Continous: 32° to 176°F (0° to 80°C); Intermittent: 32° to 212°F (0 to 100°C)
Certifications/Compliance:	Approved by ASTM method and approval number is ASTM D 1179
For Use With (Equipment):	ISE Meters
Type:	Combination Ion Selective Electrode



Part No.	Description	Qty	List
M300-377	Ionplus Sure-Flow Solid State Combination	1/ea	\$1066.98
M300-356	Fluoride Half-Cell w/ BNC Connector	1/ea	\$917.36
M300-357	Fluoride Half-Cell w/ Screw Cap Connector	1/ea	\$860.94

Need storage solutions for your electrodes? We have those too. Ask you rep about Part # 2795-16.



Orion™ Chloride Electrodes

Measure free chloride in the range of 1×10^{-5} M to 1M with Thermo Scientific™ Orion™ Chloride Electrodes

Part No.	Description	Qty	List
M300-379	.....Ionplus Sure-Flow Solid State Combination w/ Waterproof BNC.....	1/ea.....	\$1058.40
M300-359	.....Solid State Half-Cell w/ BNC Connector.....	1/ea.....	\$858.49
M300-360	.....Solid State Half-Cell w/ Screw Cap Connector.....	1/ea.....	\$862.17



Orion™ ROSS Ultra™ Refillable pH/ATC Triode™ Combination Electrodes for Orion Series Meters

Measure biological media, pharmaceuticals, foods and more with Thermo Scientific™ Orion™ ROSS Ultra™ Refillable pH/ATC Triode™ Combination Electrodes. They are ideal for any application where the use of metallic reference electrodes would contaminate the samples. ROSS Ultra pH/ATC electrodes offer more flexibility, accuracy and precision for your pH measurement needs. With built-in temperature sensors, these electrodes offer a convenient solution for your routine sample measurements. They have great stability and drift and come with a two-year replacement warranty.

For use with: Thermo Scientific Orion Versa Star, Star A and Dual Star meters

Part No.	Description	Qty	List
M300-279	.....BNC Waterproof, 8-pin MiniDIN Connector.....	1/ea.....	\$724.81

For use with: Mettler Toledo Five and Seven series pH meters

Part No.	Description	Qty	List
M300-280	..... BNC Waterproof, RCA Connector	1/ea.....	\$435.38



Electrode Accessories

Electrode Holder

Pays for itself by speeding up batch sampling and reducing probe breakage. NASA Space Shuttle engineering assures smooth and effortless operation. Performs like a robot arm in zero gravity. Ideal for multiple pH readings or conductivity.

Moves in all directions.

Accepts all brands

Weight: 6 lbs.



Part No.	Description	Qty	List
E672-000	..... Electrode Holder	1/ea.....	\$121.38

pH and ORP Electrodes

Use with any meter with a BNC connector.

Each 12 mm electrode includes a FREE electrode saver bottle to extend electrode life.

Use ORP electrodes with meters that read mV to take REDOX readings.

Choose a single junction electrode for field, clean water and general purpose applications. Choose a double junction electrode for most applications, including dirty water, heavy metals and organics applications.

All electrodes have a BNC connector and are 12mm dia with a 3ft cable (except submersible electrode, which is 25mm dia with a 10ft cable). We offer many other pH and ORP electrodes for specialty applications; contact us for more information.

IMPORTANT: To take pH readings with Automatic Temperature Compensation (ATC), also order a temperature probe separately.

pH Electrodes

Part No.	Description	Qty	List
M542-529	.....ph electrode 0-14 SJ Epoxy Body Gel Filled.....	1/ea.....	\$78.38
M542-525	..... Use for dirty water/heavy metals	1/ea.....	\$123.38

ORP Electrodes

Part No.	Description	Qty	List
M542-536	..... For REDOX readings, platinum band sensor	1/ea.....	\$127.50
M542-538	..... ORP electrode, epoxy body, double-junction.....	1/ea.....	\$210.00

pH Buffers, storage solutions & cleaning solutions are also available.



SPECTROPHOTOMETER

Orion™ AquaMate 8000 UV-Vis Spectrophotometer

This spectrophotometer offers 260 preprogrammed methods for ion concentration from absorbance plus wavelength scanning function and standard curve function for creating custom method using so virtually any brand of colorimetric reagent can be used. Utilize 190-1100 nm selectable wavelengths, 1.8 nm spectral bandwidth and vial flexibility with the included 3-position carousel for holding round and rectangular vials. Pre-programmed methods can also be adapted for new chemistries or operators can create their own custom methods and calibration curves.

Instruments allow a one-point adjustment on any preprogrammed method to correct for variations in batch reagent chemistries.

Versatility:

Wide variety of vials sizes can be used, including 10mm square vials, 20 and 50mm rectangular vials and an adjustable round vial holder that accommodates 13, 16 and 24mm round vials.

Verification:

Performance verification tests ensure wavelength accuracy and instrument functionality.

Each verification report gives the time, date and instrument serial number in accordance with GLP and GMP.

Built-in wavelength accuracy test is compatible with either the internal lamp or external calibrated standards.

Built-in test methods for stray light, noise and resolution are available to validate instrument performance further.

Includes:

Methods on USB memory stick

Three-position cell holder

User documentation

Dust cover

USB cable

110V, 220V and 240V power cords

Accuracy (Photometric): ±0.005A at 1.0A; <0.00025 at 0.0A

Compatibility: Compatible with ink jet and laser printers with HP PCL 5 or greater

Connections: USB type A port for USB stick (front panel), USB type B port for computer (rear panel),

USB type A port for printer (rear panel)

Detector Type: Dual silicon photodiodes

Display: Graphical with LCD backlight—9.7 x 7.1cm (3.8 x 2.8")

Drift: <0.0005A/hr

Electrical Requirements: 100 to 240V 50/60Hz

Hertz: 50/60Hz

Includes: Methods on USB memory stick; 6-position cell holder; 3-position cell holder; 1-position cell holder; User documentation; Dust cover; USB cable; 110V and 220V power cords

Keypad: Sealed membrane with tactile response keys

Lamp: Xenon flash lamp (5 years)

Min. Data Interval: 0.2; 0.5; 1.0; 2.0; 3.0; 5.0nm

Noise: <0.00050 at 1.0 A; <0.00080 at 2.0 A RMS at 260nm

Optical Design: Dual beam—internal reference detector

Photometric Linearity: Up to 3.5A at 260nm

Range (Photometric): -0.5 to 5.0 A; -1.5 to 125 %T; ±9999 C

Spectral Bandwidth: 1.8nm

Stray Light: <0.08%T at 220nm and 340nm; <0.1%T at 340nm and 400nm; <1.0%T at 198nm

Voltage: 100 to 240V

Wavelength Accuracy: ±1.0nm

Wavelength Range: 190 to 1,100nm

Wavelength Repeatability: ±0.5nm

Wavelength Scan Speed: 10 to 4,200nm/min

Wavelength Slew Speed: 11,000nm/min



Part No.	Description	Qty	List
M300-515	AquaMate 8000 UV-Vis Spectrophotometer	1/ea	\$8831.42

**Be sure to review our highlighted section of cuvettes
on page 265 to 268.**

GENESYS™ 30 Visible Spectrophotometer

The Thermo Scientific™ GENESYS™ 30 Visible Spectrophotometer performs both basic and complex analyses for educational or industrial use. Results can be reported quickly as digital or printed data. The GENESYS 30 visible spectrophotometer brings you intuitive design, a high definition color screen, fast and accurate measurements and convenient data reporting.

High definition 5-inch color screen with rubberized push-button keypad for easy navigation

Single cell measurement with removable, washable sample compartment liner

Cell holders for standard cell types including test-tubes

New onboard software UI; Thermo Scientific™ VISIONlite PC software is optional

USB data export in a text format that's easy to read and process

Excellent snap-on thermal printer

Meets curriculum topics for:

Single wavelength

Scanning

Beer's Law

Colorimetry/colorimetric analysis

Quantitative analysis

Higher data confidence with 6-point quant plus concentration mode

Baseline Flatness: <0.003A, 325nm – 1000nm smoothed

Compartments: Accessible from top, front or side

Able to accommodate cells up to 100mm pathlength

Available accessory for test-tubes up to 25mm diameter and 150mm height

Removable, washable sample compartment liner with magnetic placement and hold-down

Connections: USB-A on front face supports flash memory devices for method and data storage

USB-B on side supports connection to a Windows™ computer running optional remote control software.

Detector Type: Silicon Photodiode

Dimensions (L x W x H): 35.5 x 38.5 x 19.5cm

Display: 5 in. diagonal, 32 bit color display, 800 x 480 pixels

Drift: <0.002A/Hr

At 500nm after 2hr warmup. Typical <0.004A/hr after 1hr warmup

Electrical Requirements: External AC to DC converter.Voltage and Hz selected automatically, 100-250 volts, 50-60Hz

Keypad: Tactile rubber 23 keys with numeric keypad

Lamp: 1000 Hrs typical service life

Languages: English, Spanish, German, French, Italian, Portuguese, Russian,Chinese, Japanese, Korean, Thai, Arabic

Noise: ≤0.001A at 0A

≤0.001A at 1A

≤0.002A at 2A

RMS at 500nm. 60 consecutive measurements

Optical Design: Single beam

Photometric Accuracy: ±0.002A (0 - 0.3A)

Instrument: 0.5% of ABS reading (0.301A - 2.5A)

Photometric Display: -3A to +3A, 0 to 200 000 %T, 0 to 9 999 999 C

Photometric Range: -3A to +3A

Photometric Repeatability: ± 0.002 A

Measured at 1.0 A @546nm

Printer: Thermal printer accessory with 80mm width paper

Spectral Bandwidth: 5 nm

Stray Light: <0.1%T at 340nm and 400nm

Measured using glass cutoff filters or NaNO2 at 340nm

Wavelength Accuracy: ± 2nm

Wavelength Data Interval: 1nm

Wavelength Range: 325nm – 1100nm

Wavelength Repeatability: < ±1nm

Wavelength Scan Speed: Automatic – up to 1200nm/min

Weight (Metric): 7.5kg

Warranty: 2 years standard with one year extension upon registration of the instrument with Thermo Fisher Scientific™ within 6 months of purchase



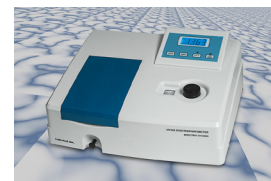
Part No.	Description	Qty	List
1900-170	GENESYS 30 Visible Spectrophotometer	1/ea	\$3755.94



Spectrophotometer

This instrument is the realization of a long history of specialized research, design and manufacture. It is simple in construction and high in performance. The multiple cell holder is just one of the unique features. It is able to test, record and print four sample results immediately by built in interface RS 232C. The Spectro may save the reagents and samples by using the optional semi-micro cuvette of 1.5ml or less to reduce waste. This unit was constructed with high reliability, durability, ease of operation and maintenance in mind.

Optical System: Single beam, diffraction grating
 Bandwidth: 4nm
 Wavelength Range: 195 – 1050nm
 Photometric Range: 0-100% T, 0-1.999 A
 Absorption Range: 0-1.999 A
 Concentration Range: 0-1999
 Direct-read range: 0-1999



Part No.	Description	Qty	List
I660-800	Single beam spectrophotometer	1/ea	\$2270.00

Smart Spectrophotometer

This spectrophotometer offers enhanced ease-of-use, precision and accuracy resulting in time and cost savings, as well as unprecedented confidence in test results. Works in the ultraviolet and visible range of 190-1100 nm and has a fixed bandwidth of 2.0 nm. It has a scanning speed of about 500nm/min, with a high speed 1nm step. It offers high performance and reliability, which can be used in various applications. It can be used extensively for qualitative and quantitative analysis in such fields as clinical analysis, medical laboratories, petro-chemistry laboratories, chemistry and biochemistry laboratories, educational labs, research laboratories, analytical laboratories, industrial testing, environmental control, water management, food processing, agriculture and water testing. It has excellent baseline stability and high resolution.

Optical System: Single Beam Scanning system
 Monochromator: 1200 lines/mm holographic grating C-T
 Wavelength: 190-1100nm
 Spectral Bandwidth: 2nm
 Absorbance Measuring Range: -0.301 ~ 4.000 (A)
 Transmittance Measuring Range: 0.0% - 200.0% (T)



Part No.	Description	Qty	List
I660-832	Smart spectrophotometer	1/ea	\$3190.00

Spectrophotometer

Traditional analytical device used in conventional laboratories. This spectrophotometer delivers enhanced user-friendliness, precision and accuracy resulting in time and cost savings, as well as unprecedented confidence in test results.

Optical System: Single Beam, plane grating as the dispersing element, 1200 L/nm
 Wavelength Range: 190-1100nm (D2 Lamp: 190-350nm) (Tungsten Lamp: 350-1100nm)
 Spectral Bandwidth: 2nm



Part No.	Description	Qty	List
I660-801	Spectrophotometer	1/ea	\$3800.00

Spectrophotometer Accessories

Standard Cuvette Cell

Lid: Yes
 Material: Quartz
 For: 190-2500nm
 Outside Dimensions: 45 x 12.5 x 12.5mm
 Path Length: 10mm
 Inside Width: 10mm
 Volume: 3.5mL



Micro Cuvette Cell w/ Frosted Walls

Lid: Yes-PTFE Stopper
 Material: Quartz
 Outside Dimensions: 45 x 12.5 x 12.5mm
 Path Length: 10mm
 Inside Width: 3mm
 Volume: 1mL



Part No.	Description	Qty	List
I660-722	Standard Cuvette Cell	1/ea	\$200.93
I660-591	Standard Cuvette Cell	1/ea	\$183.51

Part No.	Description	Qty	List
I660-708	Micro Cuvette Cell	1/ea	\$368.42

Analyzer Cuvettes

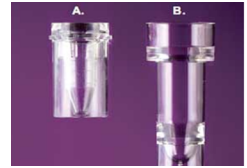
Manufactured of the highest grade materials and thoroughly tested to maintain our own high quality level.

For use with: Technicon, American Monitor, Kodak Ektachem 400 & 700

Part No.	Description	Qty	List
C200-234	0.5mL PS Natural Cup	1000/pk	\$58.35

For use with: Hitachi 717, 736, 737

Part No.	Description	Qty	List
C200-235	2.0mL PS Natural Cup	1000/pk	\$61.85



Path: 10mm (4mm wide for C200-232)
 Height: 45mm
 Material: Optically Clear Polystyrene
 Range: 340-800 nm
 Packaged 100 per tray, 1000 per case.

Part No.	Volume	Type	Qty	List
C200-231	3.5mL	Fluorimeter	1000/cs	\$234.10
C200-229	3.5mL	Standard	1000/cs	\$220.50
C200-232	1.35mL	Semi-Micro	1000/cs	\$252.00
C200-230	N/A	Cap(LDPE)	1000 (500 per bag)	\$61.35

Kartell Cuvettes, 4 Clear Sides Macro

Polystyrene 4 clear side cuvettes are designed specifically for fluorometry, this is an excellent choice for nephelometry and spectrophotometry. A negligible variation in absorbance between the 4 optical sides allows readings from any side. The polystyrene cuvettes are accurate in the 340nm to 750nm visible spectral range. The methacrylate cuvettes are accurate throughout the 285nm to 750nm VIS-UV spectral range. Standard 1cm light path. Packaged 100 per covered tray, with 500 per case. Note: 4 clear-sided cuvettes are not sorted by nest numbers.



Part No.	Description	Qty	List
M460-005	Cuvette UV-Vis 4.5mL Clear Side	500/cs	\$173.65
M460-006	Cuvette VIS PS 4.5mL Clear Side	500/cs	\$131.56

Cuvettes, Visible Range Macro

Cuvettes, Visible Range Macro, 4.5ml

These exceptionally fine quality polystyrene cuvettes are designed for assays throughout the 340nm to 750nm visible spectral range. These specially designed cuvettes handle up to 4.5ml total volume with minimum filling volume of 2.5ml and a maximum of 4.5ml. Molded arrow indicates the direction of transmission for optimal signal and reproducibility. Packaged 100 per covered tray, with 500 per case.

Dimensions: 12.5 x 12.5 x 45mm
 Window: 10 x 35mm
 Light Path: 10mm



Cuvettes, UV-VIS Range Macro, 4.5mL

A superior grade of methacrylate provides an excellent degree of light transmission throughout the VIS-UV spectral range from 285nm to 750nm. These cuvettes are ideal for scanning, enzyme rate reactions (with small delta absorbances) and standard curve determinations. These cuvettes have a minimum filling volume of 2.5mL and a maximum of 4.5mL. Packaged 100 per covered tray with 500 per case.

Part No.	Description	Qty	List
M461-543	Cuvette Standard 4.5mL	500/cs	\$157.82
M461-546	Cuvette Macro UV 4.5mL	500/cs	\$216.85



PS and PMMA Cuvettes

BRAND's plastic cuvettes are manufactured from the highest quality virgin resins for highest optical quality and are an excellent choice for most spectrophotometry applications in the visible range. Manufactured from polystyrene (PS) or polymethyl methacrylate (PMMA), they provide accurate, reliable results. Choose PS for determinations above 340nm and where cost is a concern. When performing assays above 300nm, choose PMMA. (For wavelengths below 300nm, see our UV-cuvettes). These disposable cuvettes are available in macro and semi-micro sizes to accommodate most sample volumes and are compatible with most spectrophotometers and photometers. All BRAND cuvettes are manufactured from scratch-resistant materials and are grouped by manufacturing mold cavity number to ensure the lowest variation in extinction coefficient.



BRAND Polystyrene (PS) Cuvettes

Part No.	Description	Filling Volume		Window Dimensions	Light Path, mm	Qty	List
		Min.	Max.				
P212-064	Macro	2.5	4.5	10 x 35mm	10	500	\$119.95
P212-065	Macro	2.5	4.5	10 x 35mm	10	100	\$27.58
P212-066	Semi-Micro	1.5	3	4.5 x 23mm	10	500	\$130.45
P212-067	Semi-Micro	1.5	3	4.5 x 23mm	10	100	\$29.08

BRAND Methacrylate (PMMA) Cuvettes

Part No.	Description	Filling Volume		Window Dimensions	Light Path, mm	Qty	List
		Min.	Max.				
P212-068	Macro	2.5	4.5	10 x 35mm	10	500	\$169.43
P212-069	Macro	2.5	4.5	10 x 35mm	10	100	\$38.38
P212-070	Semi-Micro	1.5	3	4.5 x 23mm	10	500	\$146.95
P212-071	Semi-Micro	1.5	3	4.5 x 23mm	10	100	\$32.08

UV Cuvettes

Eliminate the need for cleaning and the associated risk of sample carryover and cross-contamination. BRAND's UV-transparent, disposable cuvettes replace expensive, fragile quartz cuvettes and are excellent for DNA, RNA and protein analysis between 230-900nm. Made from a proprietary polycyclical olefin, they can be used with most polar solvents, acids and alkaline solutions. In addition to the macro and semi-micro sizes, UV-cuvettes are available in ultra-micro sizes that require only 70µL of sample volume. The ultra-micro cuvettes are also available individually-wrapped and independently-certified DNA-, DNase-, RNase-free for an extra degree of sample protection. All BRAND cuvettes are manufactured from scratch-resistant materials and are grouped by manufacturing mold cavity number to ensure the lowest variation in extinction coefficient.



Part No.	Description	Filling Volume		Window Dimensions	Light Path	Qty	List
		Min.	Max.				
P210-720	Macro	2.5mL	4.5mL	10 x 35mm	10mm	100	\$125.95
P210-719	Semi-Micro	1.5mL	3.0mL	4.5 x 23mm	10mm	500	\$565.25
P210-717	Semi-Micro	1.5mL	3.0mL	4.5 x 23mm	10mm	100	\$129.10
P210-725	Ultra-Micro (15mm window height)	70µL	550µL	2 x 3.5mm	10mm	500	\$565.25
P210-724	Ultra-Micro (15mm window height)	70µL	550µL	2 x 3.5mm	10mm	100	\$125.95
P210-726	Ultra-Micro, individually wrapped (15mm window height)	70µL	550µL	2 x 3.5mm	10mm	100	\$184.43
P210-722	Ultra-Micro (8.5mm window height)	70µL	850µL	2 x 3.5mm	10mm	500	\$565.25
P210-721	Ultra-Micro (8.5mm window height)	70µL	850µL	2 x 3.5mm	10mm	100	\$125.95
P210-723	Ultra-Micro, individually wrapped (8.5mm window height)	70µL	850µL	2 x 3.5mm	10mm	100	\$184.43

Cuvette Rack and Caps

The cuvette rack is manufactured from polypropylene and has 16 numbered positions. It is autoclavable at 121°C.

Round cuvette caps, manufactured from PE, fit the ultra-micro cuvettes. The caps provide a tight seal and allow storage of samples to -20°C. Available in 4 colors for easy sample identification.



Part No.	Description	Qty	List
P210-727	Cuvette Caps, round, for ultra-micro cuvettes; Blue	100/pk	\$41.08
P210-728	Cuvette Caps, round, for ultra-micro cuvettes; Yellow	100/pk	\$41.08
P210-729	Cuvette Caps, round, for ultra-micro cuvettes; Green	100/pk	\$41.08
P210-730	Cuvette Caps, round, for ultra-micro cuvettes; Orange	100/pk	\$41.08
P210-731	Polypropylene Cuvette Rack, 16 numbered positions; Grey	1/ea	\$49.58

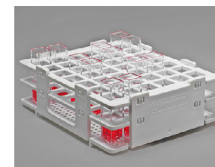
No-Wire Cuvette Rack; For 10mm Cuvettes, 42 Places

All-polypropylene rack provides gentle no-scratch support for fragile and expensive spectrophotometer cuvettes.

Holds forty-two 10mm light path cuvettes

6 x 7 row layout

Steam autoclavable at 121°C (250°F)



Part No.	Dimensions	Qty	List
R100-021	12.8 x 10.5 x 4.3cm (5.1 x 4.1 x 1.7")	1/ea	\$33.00

Cuvette Rack; For 10mm Cuvettes, 12 Places, Stackable, Polypropylene

Hold Fragile Spectrophotometer Cuvettes in Complete Safety

These two tier racks support cuvettes with a minimum of physical contact, greatly reducing the chance of damage.

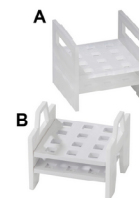
Only the corners of the cuvettes touch the racks.

Accommodate 12 cuvettes of 10mm light path.

Will not scratch quartz cuvettes.

R100-020 features Stack Rack™ interlocking end plates for secure stacking.

Polypropylene; steam autoclavable at 121°C (250°F).



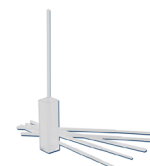
Part No.	Dimensions	Qty	List
R100-020	11.4 x 11.1 x 11.1cm (4 3/4 x 4 3/8 x 4 3/8")	1/ea	\$41.78
R100-019	11.7 x 10.8 x 11.1cm (4 5/8 x 4 1/4 x 4 3/8")	1/ea	\$43.58

Cuvette Stirring Spatulas

Polystyrene disposable Cuvette Stirring Spatulas measure 120mm long by 3mm diameter.

Packed 500 stirrers in a polyethylene bag with 2 bags per case (1000 each).

Part No.	Description	Qty	List
M460-232	120mm Long by 3mm Diameter	1000/cs	\$71.65



Kartell Cuvette Holder ,LDPE

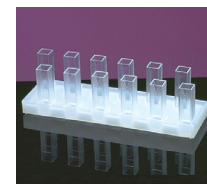
Plastic cuvette holder rack holds 12, glass, silica or plastic disposable cuvettes (external dimensions 12.5 x 12.5mm).

Polyethylene cuvette rack permits easy viewing of the solution color to be measured and helps prevent breakage.

The cuvettes can also be fitted horizontally in the base after usage for storing purposes.

Supplied in a pack of 5 each.

Dimensions: 170 L x 50 W x 15mm H (6.69 x 2 x 0.59").



Part No.	Description	Qty	List
C420-023	LDPE Cuvette Holder	1/ea	\$35.88

Stir and Add Cuvette Mixers

Provides Complete Mixing

Made of clear acrylic with a straight handle, this tool is used when reactions are performed directly into cuvettes, to mix added reagents.

Up and down motion in cell provides complete mixing.

Shaft diameter: 3.17mm (0.125")

Part No.	Description	Shaft Length	Mixer Dimen.	Qty	List
M441-182	For 10mm Light Path Cells	11.4cm (4.5")	9.1 x 9.1mm (0.36 x 0.36")	3/pk	\$87.08
M441-183	For Semi-Micro Cells	13.0cm (5.1")	9.1 x 3.6mm (0.36 x 0.14")	3/pk	\$87.08



TIMERS

Traceable® 60-Minute Interval Timer

Adjustable from 0 to 60 minutes in 1-minute increments. Setting pointer to desired interval winds the time automatically. Indicating pointer always shows exact time remaining on easy-to-read dial. Stands on lab bench at a viewing angle. Case is chemical resistant.

# Channels/zones:	1
Timing Capacity:	0 to 60 minutes
Timing Resolution:	1 minute
Additional Functions:	No batteries
Memory:	N
Count Up/Count Down:	Count Down
Dimensions:	3-3/4 x 2"
Weight:	3-3/8 oz.
A/C Plug (Y/N):	N
Traceable:	N



Part No.	Description	Qty	List
T501-026	60 Minute Interval	1/ea	\$28.53

Traceable® Water-Resistant/Shockproof Stopwatch

General-purpose stopwatch times to 24 hours. Timing resolution is 1/100 of a second for the first 30 minutes, then continues timing to 23 hours, 59 minutes, 59 seconds, with a 1-second resolution. Accuracy is always 0.01%. Digits are 1/4-inch-high. O-ring-sealed and shock-proof ABS plastic case is ideal for lab and plant use. Unit is Water-Resistant to three atmospheres. Tactile-feel, click switches provide a positive action.

Channels:	1
Timing Capacity:	23 hours, 59 minutes, 59 seconds
Timing Resolution:	1/100 of a second (between 0 to 30 minutes) 1 second (between 31 min to 23hr 59 min 59 sec)
Memory:	No
Count:	Up



Part No.	Description	Qty	List
T501-042	Water-Resistant/Shockproof Stopwatch	1/ea	\$25.45

Traceable® Three-line Alarm Timer

User-friendly timer displays three different countdown/alarm times simultaneously. Three unique channels may be started individually or concurrently and programmed to count down from 99 hours, 59 minutes, 59 seconds to 1 second. When zero is reached, an alarm sounds, TIME'S UP is displayed and the timer begins counting up. For ease in reading, the digits are 3/8-inch-high.

Channels:	3
Timing Capacity:	99 hours, 59 minutes, 59 seconds
Timing Resolution:	1 Second
Additional Functions:	Alarm for each channel sounds for 60 Seconds
Memory:	Yes
Count:	Up & Down



Part No.	Description	Qty	List
T501-475	Three-Line Alarm Timer	1/ea	\$48.68

Traceable® Four-Channel Alarm Timer

Count up/down, time in/out, memories, alarm, 12/24 hour clock. Massive 3/4" high display allows viewing from across the lab. Remarkable memory returns display to previously programmed countdown time at the touch of a button. Extra-loud, 70 db alarms for 1 minute or can be silenced manually. Supplied: clip, stand, magnet, battery, Traceable® Certificate.

Channels:	4
Timing Capacity:	99 hours, 59 minutes, 59 seconds
Timing Resolution:	1 Second
Additional Functions:	Time in/out, alarm, 12/24 hour clock
Memory:	Yes
Count:	Up & Down



Part No.	Description	Qty	List
T502-004	Four-Channel Alarm Timer	1/ea	\$42.00

Traceable® QC Timer

Simple 3-key use and large digits for easy viewing.

When countdown timing reaches zero, TIMES UP flashes on display, alarm sounds and timer counts up showing time elapsed since alarm.

Supplied with: Traceable® Certificate, flip-open stand, clip, magnet and battery

Channels/zones: 1
 Timing Capacity: 19 hours, 59 minutes
 Timing Accuracy: 0.01% accuracy
 Timing Resolution: 1 minute
 Additional Functions: Clip, Magnet, flip open stand



Part No.	Description	Qty	List
T501-487	Large Digit QC Timer	1/ea	\$23.78

Three Channel Traceable Alarm Timer

Innovative timer has programmable alarm with adjustable volume control for any environment.

Features: count up/down, time in/out, memories, alarm, clock, adjustable alarm duration/volume.

Perfect unit to dedicate to repetitive tests.

Triple display shows 3 different times at once; tests can be started individually or simultaneously.

Adjustable volume alarm can be set to sound for 60 seconds or to sound continuously until turned off.

Channels/zones: 3
 Timing Capacity: 99 hours, 59 minutes, 59 seconds
 Timing Accuracy: 0.001% accuracy
 Timing Resolution: 1 second
 Additional Functions: time in/out, memories, alarm, clock, adjustable alarm duration/volume
 Memory: Y
 Count Up/Count Down: count up/down
 Supplied With: Traceable® Certificate, ABS chemical resistant plastic case and battery.



Part No.	Description	Qty	List
T502-001	Lap-Top Timer	1/ea	\$69.95

Mini-Alarm Traceable Timer/Stopwatch

Lab partner delivers multiple functions for routine, everyday timing needs.

Features: count up/down, time in/out, memory, extra-loud alarm, clock.

Numbered keys make it a breeze to set countdown time.

When zero is reached, alarm sounds TIMES UP flashes on display and timer counts up time elapsed since alarm.

Channels/zones: 1
 Timing Capacity: 99 hours, 59 minutes, 59 seconds
 Timing Accuracy: 0.01% accuracy
 Timing Resolution: 1 second
 Additional Functions: time in/out, extra-loud alarm, clock
 Memory: Y
 Count Up/Count Down: count up/down
 Supplied With: Battery, magnetic back, flip-open stand, clip, opening for lanyard, Traceable® Certificate



Part No.	Description	Qty	List
T501-484	Triple Purpose Timer	1/ea	\$33.45

Traceable® Digital Bench Top Timer

Unique external triggering capability provides broad array of timing options.

Features: large LCD screen, lab-bench footprint.

Stopwatch functions: time in/out timing, cumulative split and interval split, infinite time outs.

Three 4mm sockets and supplied test leads allow external triggering of STOP/START and SPLIT/LAP/RESET.

Channels/zones: 1
 Timing Capacity: 9 hours, 59 minutes, 59 seconds and 99 hundredths
 Timing Accuracy: 0.001% accuracy
 Timing Resolution: 0.01 second
 Additional Functions: Time-out/Time-in, Continuous Timing, Cumulative Split, Interval Split,
 Supplied With: Battery, test leads, Traceable® Certificate



Part No.	Description	Qty	List
T501-053	Digital Bench Top Timer	1/ea	\$152.90



THERMOMETERS

Liquid in Glass

Thermco's Precision Liquid In Glass Thermometers are manufactured with the finest glass manufactured under ISO2001 guidelines. Each thermometer is individually serialized and calibrated against standards traceable to NIST & DKD in our A2LA/ILAC approved calibration laboratory. Thermco has an extensive line of LIG Red & Blue Spirit Non-Toxic Thermometers, Mercury (Hg) Thermometers, PTFE Safety Coated Thermometers.

ACCU-SAFE - Enclosed Chamber Verification Bottle Thermometers

- Non-Mercury Thermometers
- Mercury Thermometers

NIST Traceable Factory Certified Thermometers

- Non-Mercury Thermometers
- Mercury Thermometers

ASTM - Thermometers

- ASTM - Mercury Thermometers
- ASTM - Non-Mercury Thermometers
- ASTM - Certified Thermometers
- ASTM - Factory Certified Thermometers
- ASTM - Precision Factory Certified Sets
- ASTM - Tank Gauging Thermometers

Precision - Non-Mercury Laboratory Thermometers

- Red Spirit Laboratory Thermometers
- Safety Coat Thermometers
- Fractional Degree Thermometers
- Armor Thermometers
- Pocket Armor Thermometers

Precision - Hg Laboratory Thermometers

- Mercury Laboratory Thermometers
- Safety Coat Thermometers
- Fractional Degree Thermometers
- Precision Armor Thermometers
- Max-Registering Pocket Armor Thermometers

Accu-Safe Non-Mercury Laboratory Thermometers

- Thermometers
- Safety Coat Thermometers
- Fractional Degree Thermometers
- 8" Thermometers
- Pocket Armor Thermometers

General - Laboratory Thermometers

- Non-Mercury Laboratory Thermometers
- Mercury Laboratory Thermometers
- Non-Mercury Laboratory Safety Coat Thermometers
- Mercury Laboratory Safety Coat Thermometers

Autoclave Thermometers

- Maximum Registering Armor Thermometers

Special Application - Thermometers

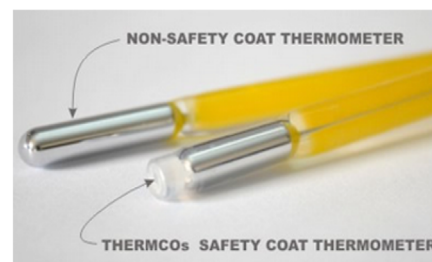
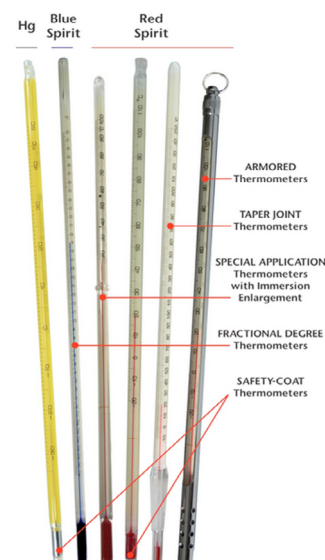
- Non-Mercury Special Application Thermometers
- Mercury Special Application Thermometers
- Precision - Taper Joint Thermometers
- Variable Immersion / Adjustable Bushing Thermometers

Assorted - Thermometers

- Pocket - Thermometers
- Vaccine - Thermometers

Thermometer - Accessories

- Magn-O-Fier
- Holder with Clip
- Anti-Roll Sleeve
- Storage Cases
- Thermometer Rack



ASTM Certified

Hg Certified Thermometers & Spirit Certified Thermometers

Thermco's ASTM - Certified Thermometers use ASTM methods in the calibration of these instruments and are outlined in:

ASTM E1 - 14 Standard Specification for ASTM Liquid-in-Glass Thermometers

ASTM E77 - 14 Standard Test Method for Inspection and Verification of Thermometers

Traceable Calibration Document Included



Part No.	ASTM #	Certified Temperatures	Qty	List
T105-017	1C	-20°, 0°, 50°, 100°, 150°C	1/ea	\$445.05
T105-021	1F	0°, 32°, 122°, 212°, 302°F	1/ea	\$445.06
T105-024	2C	0°, 75°, 150°, 225°, 300°C	1/ea	\$441.95
T105-026	2F	32°, 150°, 300°, 450°, 580°F	1/ea	\$441.95
T105-029	3C	0°, 100°, 200°, 300°, 370°C	1/ea	\$447.40
T105-031	3F	32°, 200°, 370°, 540°, 700°F	1/ea	\$447.40
T105-034	4C	0°, 50°, 100°C	1/ea	\$297.91
T105-037	4F	32°, 122°, 212°F	1/ea	\$297.91
T105-042	5C	-35°, 0°, 50°C	1/ea	\$291.44
T105-046	5F	-30°, 32°, 120°F	1/ea	\$291.44
T105-049	6C	-70°, -35°, 0°, 20°C note: spirit filled	1/ea	\$393.77
T105-051	6F	-94°, -30°, 32°, 70°F note: spirit filled	1/ea	\$393.77
T105-054	7C	0°, 50°, 100°, 150°, 200°, 250°, 300°C	1/ea	\$595.58
T105-056	7F	32°, 100°, 200°, 300°, 400°, 500°, 570°F	1/ea	\$595.58
T105-059	8C	0°, 100°, 200°, 300°, 370°C	1/ea	\$441.95
T105-061	8F	32°, 200°, 370°, 540°, 700°F	1/ea	\$441.95
T105-064	9C	0°, 35°, 70°, 105°C	1/ea	\$358.54
T105-068	9F	32°, 100°, 160°, 220°F	1/ea	\$358.54
T105-073	10C	100°, 200°, 300°, 370°C	1/ea	\$400.23
T105-075	10F	212°, 390°, 570°, 700°F	1/ea	\$400.23
T105-078	11C	0°, 100°, 200°, 300°, 370°C	1/ea	\$476.91
T105-080	11F	32°, 200°, 370°, 540°, 700°F	1/ea	\$476.91
T105-084	12C	-20°, -10°, 0°, 10°, 20°, 30°, 40°, 50°, 60°, 70°, 80°, 90°, 100°C	1/ea	\$1101.51
T105-088	12F	-5°, 15°, 32°, 60°, 85°, 110°, 135°, 160°, 185°, 210°F	1/ea	\$1091.37
T105-092	13C	155°, 163°, 170°C	1/ea	\$342.47
T105-096	14C	40°, 50°, 60°, 70°, 80°C	1/ea	\$451.56
T105-100	14F	100°, 120°, 140°, 160°, 180°F	1/ea	\$451.56
T105-105	15C	0°, 20°, 40°, 60°, 80°C	1/ea	\$448.16
T105-110	15F	32°, 70°, 100°, 140°, 180°F	1/ea	\$448.16
T105-114	16C	30°, 60°, 90°, 120°, 150°, 180°, 200°C	1/ea	\$605.16
T105-118	16F	90°, 140°, 190°, 240°, 290°, 340°, 390°F	1/ea	\$605.16
T105-122	17C	21°, 25°C	1/ea	\$211.40
T105-126	17F	70°, 77°F	1/ea	\$211.40
T105-130	18C	38°, 41°C	1/ea	\$211.40
T105-134	18F	100°, 107°F	1/ea	\$211.40
T105-138	19C	50°, 54°C	1/ea	\$211.40
T105-142	19F	122°, 130°F	1/ea	\$211.40
T105-146	20C	60°, 64°C	1/ea	\$211.40
T105-150	20F	140°, 147°F	1/ea	\$211.40
T105-154	21C	82°, 86°C	1/ea	\$211.40
T105-158	21F	180°, 187°F	1/ea	\$211.40
T105-164	22C	99°, 102°C	1/ea	\$211.40
T105-169	22F	210°, 212°F	1/ea	\$211.40
T105-174	23C	20°, 25°C	1/ea	\$246.63
T105-179	24C	40°, 50°C	1/ea	\$246.63
T105-184	25C	95°, 100°C	1/ea	\$246.63
T105-189	26C	130°, 135°, 140°C	1/ea	\$348.95
T105-194	27C	155°, 165°, 175°C	1/ea	\$336.26
T105-199	28C	0°, 37.8°, 39°C	1/ea	\$445.05
T105-203	28F	32°, 100°, 102°F	1/ea	\$445.05
T105-208	29C	0°, 54.4°, 55°C	1/ea	\$445.05
T105-212	29F	32°, 130°, 132°F	1/ea	\$445.05
T105-217	30F	32°, 210°, 212°F	1/ea	\$445.05
T105-220	31F	-20°, 32°, 100°F	1/ea	\$313.72
T105-226	33C	-35°, -20°, 0°, 20°, 40°C	1/ea	\$515.54
T105-230	33F	-31°, -4°, 32°, 68°, 104°F	1/ea	\$515.54
T105-236	34C	25°, 45°, 65°, 85°, 100°C	1/ea	\$522.00



Part No.	ASTM #	Certified Temperatures	Qty	List
T105-240	34F	77°, 113°, 149°, 185°, 212°F	1/ea	\$522.00
T105-245	35C	100°, 120°, 140°, 160°, 170°C	1/ea	\$483.67
T105-249	35F	212°, 250°, 285°, 320°, 338°F	1/ea	\$483.67
T105-254	36C	0°, 15°, 30°, 45°, 65°C	1/ea	\$467.61
T105-259	37C	0°, 15°, 30°, 50°C	1/ea	\$400.23
T105-264	38C	25°, 40°, 55°, 75°F	1/ea	\$467.61
T105-269	39C	50°, 65°, 80°, 100°C	1/ea	\$400.23
T105-275	40C	75°, 90°, 105°, 125°C	1/ea	\$392.21
T105-280	41C	100°, 115°, 130°, 150°C	1/ea	\$406.72
T105-287	42C	100°, 150°, 200°, 250°C	1/ea	\$406.72
T105-292	43C	-50°, -45°, -40°, -35°, 0°C	1/ea	\$967.05
T105-294	43F	-60°, -50°, -40°, -30°, 32°F	1/ea	\$967.05
T105-301	44C	0°, 20°, 2rC	1/ea	\$438.58
T105-305	44F	32°, 68°, 70°F	1/ea	\$438.58
T105-312	45C	0°, 25°, 26°C	1/ea	\$438.58
T105-316	45F	32°, 77°, 79°F	1/ea	\$438.58
T105-323	46C	0°, 50°, 51°C	1/ea	\$438.58
T105-327	46F	32°, 122°, 124°F	1/ea	\$438.58
T105-331	47C	0°, 60°, 61°C	1/ea	\$438.58
T105-335	47F	32°, 140°, 142°F	1/ea	\$438.58
T105-340	48C	0°, 82.2°, 83°C	1/ea	\$438.58
T105-344	48F	32°, 180°, 182°F	1/ea	\$438.58
T105-349	49C	20°, 35°, 50°, 70°C	1/ea	\$387.54
T105-352	50F	55°, 60°, 65°, 70°, 75°, 80°F	1/ea	\$627.70
T105-356	51F	70°, 75°, 80°, 85°, 90°, 95°F	1/ea	\$623.37
T105-364	52C	-10°, 0°, 5°C	1/ea	\$371.49
T105-371	53C	0°, 5°, 10°C	1/ea	\$352.30
T105-378	54C	20°, 50°, 75°, 100°C	1/ea	\$400.23
T105-382	54F	70°, 120°, 170°, 210°F	1/ea	\$400.23
T105-392	56C	19°, 21°, 23°, 25°, 27°, 29°, 31°, 33°, 35°C	1/ea	\$1011.86
T105-396	56F	66°, 70°, 74°, 78°, 82°, 88°, 92°, 95°F	1/ea	\$934.93
T105-403	57C	-20°, 0°, 25°, 50°C	1/ea	\$390.65
T105-407	57F	-3°, 32°, 77°, 122°F	1/ea	\$390.65
T105-414	58C	-30°, 0°, 25°, 45°C	1/ea	\$371.49
T105-418	58F	-20°, 32°, 80°, 120°F	1/ea	\$371.49
T105-423	59C	0°, 25°, 55°, 80°C	1/ea	\$355.42
T105-427	59F	32°, 80°, 130°, 180°F	1/ea	\$355.42
T105-434	60C	100°, 175°, 255°C	1/ea	\$304.14
T105-436	60F	212°, 350°, 490°F	1/ea	\$304.14
T105-443	61C	40°, 60°, 80°, 100°, 120°C	1/ea	\$304.14
T105-447	61F	100°, 150°, 200°, 250°F	1/ea	\$480.30
T105-566	71C	-35°, -18°, 0°, 20°C	1/ea	\$406.72
T105-570	71F	-30°, 0°, 32°, 70°F	1/ea	\$416.30
T105-575	72C	-19°, 17.8°, 0°C	1/ea	\$416.30
T105-579	72F	-2°, 0°, 32°F	1/ea	\$486.77
T105-584	73C	-41°, -40°, 0°C	1/ea	\$486.77
T105-588	73F	-42°, -40°, 32°F	1/ea	\$486.77
T105-591	74C	-55°, -53.9°, 0°C	1/ea	\$630.81
T105-593	74F	-67°, -65°, 32°F	1/ea	\$630.81
T105-598	75F	-35°, 0°, 32°F	1/ea	\$659.56
T150-600	76F	-65°, -30°, 32°F	1/ea	\$659.56
T105-606	77F	250°, 260° F	1/ea	\$345.84
T105-608	78F	300°, 310°F	1/ea	\$496.37
T105-612	79F	350°, 360°F	1/ea	\$249.74
T105-614	80F	400°, 410°F	1/ea	\$249.74
T105-616	81F	450°, 460°F	1/ea	\$249.74
T105-620	82C	0°, 50°, 100°C	1/ea	\$280.65
T105-624	82F	32°, 100°, 1200°F	1/ea	\$280.65
T105-628	83C	25°, 70°C	1/ea	\$301.02
T105-632	83F	85°, 135°F	1/ea	\$301.02
T105-636	84C	30°, 80°C	1/ea	\$224.09
T105-640	84F	100°, 150°F	1/ea	\$224.09
T105-644	85C	50°, 150°C	1/ea	\$224.09
T105-648	85F	150°, 250°F	1/ea	\$224.09
T105-652	86C	100°, 175°C	1/ea	\$233.67
T105-656	86F	225°, 325°F	1/ea	\$233.67
T105-658	87C	160°, 200°C	1/ea	\$243.51
T105-660	87F	300°, 400°F	1/ea	\$243.51

Part No.	ASTM #	Certified Temperatures	Qty	List
T105-664	88C	40°, 100°, 150°, 200°C	1/ea	\$416.30
T105-668	88F	110°, 212°, 300°, 392°F	1/ea	\$416.30
T105-673	89C	-20°, -10°, 0°, 10°C	1/ea	\$445.05
T105-677	90C	0°, 10°, 20°, 30°C	1/ea	\$403.63
T105-681	91C	20°, 30°, 40°, 50°C	1/ea	\$403.63
T105-685	92C	40°, 50°, 60°, 70°C	1/ea	\$403.63
T105-690	93C	60°, 70°, 80°, 90°C	1/ea	\$416.30
T105-693	94C	80°, 90°, 100°, 110°C	1/ea	\$416.30
T105-697	95C	100°, 110°, 120°, 130°C	1/ea	\$416.30
T105-701	96C	120°, 130°, 140°, 150°C	1/ea	\$416.30
T105-705	97C	-15°, 0°, 20°, 45°C	1/ea	\$390.65
T105-709	97F	0°, 32°, 70°, 110°F	1/ea	\$390.65
T105-713	98C	20°, 40°, 60°, 80°C	1/ea	\$390.65
T105-717	98F	60°, 100°, 140°, 180°F	1/ea	\$390.65
T105-799	100C	145°, 165°, 185°, 205°C	1/ea	\$451.56
T105-807	101C	200°, 250°, 300°C	1/ea	\$416.30
T105-840	103C	150°, 165°, 180°, 200°C	1/ea	\$422.51
T105-842	104C	175°, 190°, 205°, 225°C	1/ea	\$422.51
T105-845	105C	200°, 215°, 230°, 250°C	1/ea	\$640.40
T105-849	106C	225°, 240°, 255°, 275°C	1/ea	\$640.40
T105-851	107C	250°, 265°, 280°, 300°C	1/ea	\$640.40
T105-855	108C	275°, 285°C	1/ea	\$313.72
T105-859	109C	325°, 335°C	1/ea	\$313.72
T105-867	110C	0°, 135°, 138°C	1/ea	\$473.81
T105-871	110F	32°, 275°, 277°C	1/ea	\$473.81
T105-874	111C	170°, 200°, 250°C	1/ea	\$384.19
T105-878	112C	0°, 4°, 5°, 6°C	1/ea	\$569.93
T105-882	113C	0°, 50°, 100°, 150°, 175°C	1/ea	\$480.30
T105-886	113F	32°, 122°, 212°, 302°, 347°F	1/ea	\$480.30
T105-888	114C	-75°, -60°, -40°, 0°C note: spirit filled	1/ea	\$443.49
T105-890	114F	-103°, -76°, -40°, 32°F note: spirit filled	1/ea	\$445.05
T105-895	116C	19°, 20°, 21°, 22°, 23°, 24°, 25°C	1/ea	\$934.93
T105-899	117C	24°, 25°, 26°, 27°, 28°, 29°, 30°C	1/ea	\$934.93
T105-903	118C	0°, 30°, 31°C	1/ea	\$458.02
T105-905	118F	32°, 86°, 88°F	1/ea	\$458.02
T105-909	119C	-38°, -30°, 0°C	1/ea	\$544.28
T105-911	119F	-36°, -22°, 32°F	1/ea	\$544.28
T105-916	120C	0°, 40°, 41°C	1/ea	\$454.63
T105-920	121C	0°, 100°, 101°C	1/ea	\$454.63
T105-924	122C	-45°, -40°, -35°C	1/ea	\$544.28
T105-928	123C	-35°, -30°, -25°C	1/ea	\$473.81
T105-932	124C	-25°, -20°, -15°C	1/ea	\$473.81
T105-936	125C	-15°, -10°, -5°C	1/ea	\$473.81
T105-940	126C	-27°, -26.1°, 0°C	1/ea	\$541.19
T105-944	126F	-17°, -15°, 32°F	1/ea	\$541.19
T105-948	127C	-21°, -20°, 0°C	1/ea	\$541.19
T105-952	128C	0°, 1°C	1/ea	\$393.77
T105-956	128F	32°, 34°F	1/ea	\$393.77
T105-960	129C	0°, 93.3°, 94°C	1/ea	\$451.56
T105-964	129F	32°, 200°, 202°F	1/ea	\$451.56
T105-969	130C	0°, 35°, 70°, 105°C	1/ea	\$368.12
T105-973	130F	32°, 100°, 160°, 220°F	1/ea	\$368.12
T105-977	132C	0°, 150°, 151°C	1/ea	\$448.16
T105-981	133C	-24°, -18°, -12°, -6°, 0°F	1/ea	\$707.74
T105-983	134C	145°, 150°, 155°C	1/ea	\$342.47
T105-987	135C	50°, 90°C	1/ea	\$243.51
T105-991	135F	125°, 195°F	1/ea	\$243.51
T105-995	136C	-20°, -10°, 0°, 10°, 20°, 30°, 40°, 50°, 60°C	1/ea	\$832.61
T105-999	136F	-5°, 15°, 32°, 60°, 85°, 110°, 135°F	1/ea	\$662.67
T106-003	137C	80°, 90°, 100°C	1/ea	\$390.65

Thermometer Accessories can be found
on page 284.



ASTM - Precision Factory Certified Thermometers

Thermco's ASTM - Precision Factory Calibrated / Certified Thermometers are calibrated against NIST standards and comes with a calibration document showing corrections to the nearest tenth of a scale division traceable to NIST. These thermometers meet with all prescribed ASTM requirements. Each incorporates the ice point when not on scale (0 or 32°F) as a reference point enabling the user to validate and update the calibration document to insure accurate temperature measurements over the life of the thermometers.

Certified at 5 Temperatures with Correction Factors

Each Thermometer is Calibrated Against NIST Standards

Traceable Calibration Document Included

BLUE SPIRIT Range (-38 to 155°C) or (-36 to 311°F)

MERCURY Range (-38 to 405°C) or (-36 to 761°F)

Felt Lined Protective Case not included



Blue Spirit - Total Immersion - 400mm Length

Celsius Scale

Part No.	ASTMNo.	Range	Divisions	Certified @	Qty	List
T105-453	S62C	-38 to +2°C	0.1°C	-37°, -30°, -20°, -10°, 0°C	1/ea	\$673.28
T105-467	S63C	-8 to +32°C	0.1°C	-7°, 0°, 10°, 20°, 30°C	1/ea	\$632.58
T150-481	S64C	+25 to 55°C	0.1°C	0°, 25°, 35°, 45°, 55°C	1/ea	\$660.98
T105-495	S65C	+50 to 80°C	0.1°C	0°, 50°, 60°, 70°, 80°C	1/ea	\$674.54
T105-509	S66C	+75 to 105°C	0.1°C	0°, 75°, 85°, 95°, 105°C	1/ea	\$695.37
T105-523	S67C	+95 to 155°C	0.2°C	0°, 100°, 110°, 130°, 150°C	1/ea	\$695.37

Fahrenheit Scale

Part No.	ASTMNo.	Range	Divisions	Certified @	Qty	List
T105-460	S62F	-36 to +35°F	0.2°F	-35°, -15°, 0°, 15°, 32°F	1/ea	\$673.28
T105-474	S63F	+18 to 89°F	0.2°F	20°, 32°, 50°, 70°, 88°F	1/ea	\$632.58
T105-488	S64F	+77 to 131°F	0.2°F	32°, 80°, 95°, 115°, 130°F	1/ea	\$660.98
T105-502	S65F	+122 to 176°F	0.2°F	32°, 125°, 145°, 160°, 175°F	1/ea	\$674.54
T105-516	S66F	+167 to 221°F	0.2°F	32°, 168°, 185°, 200°, 220°F	1/ea	\$695.37
T105-530	S67F	+206 to 311°F	0.5°F	32°, 205°, 240°, 275°, 310°F	1/ea	\$695.37

Hg - Total Immersion - 379mm Length

Celsius Scale

Part No.	ASTMNo.	Range	Divisions	Certified @	Qty	List
T105-454	62C	-38 to +2°C	0.1°C	-37°, -30°, -20°, -10°, 0°C	1/ea	\$496.37
T105-468	63C	-8 to 32°C	0.1°C	-7°, 0°, 10°, 20°, 30°C	1/ea	\$424.33
T105-482	64C	+25 to 55°C	0.1°C	0°, 25°, 35°, 45°, 55°C	1/ea	\$476.91
T105-496	65C	+50 to 80°C	0.1°C	0°, 50°, 60°, 70°, 80°C	1/ea	\$481.98
T105-510	66C	+75 to 105°C	0.1°C	0°, 75°, 85°, 95°, 105°C	1/ea	\$518.65
T105-524	67C	+95 to 155°C	0.2°C	0°, 100°, 110°, 130°, 150°C	1/ea	\$556.98
T105-536	68C	+145 to 205°C	0.2°C	0°, 150°, 170°, 190°, 205°C	1/ea	\$784.42
T105-546	69C	+195 to 305°C	0.5°C	0°, 200°, 235°, 270°, 305°C	1/ea	\$784.42
T105-556	70C	+295 to 405°C	0.5°C	0°, 300°, 335°, 370°, 400°C	1/ea	\$917.33

Fahrenheit Scale

Part No.	ASTMNo.	Range	Divisions	Certified @	Qty	List
T105-461	62C	-36 to 35°F	0.2°F	-35°, -15°, 0°, 15°, 32°F	1/ea	\$496.37
T105-475	63C	+18 to 89°F	0.2°F	20°, 32°, 50°, 70°, 88°F	1/ea	\$424.33
T105-489	64C	+77 to 131°F	0.2°F	32°, 80°, 95°, 115°, 130°F	1/ea	\$476.91

**Thermometer cases available for the varying sizes of thermometers and styles.
Contact us for more information.**



Hg - Partial Immersion (104mm)

Celsius Scale

Part No.	ASTMNo.	Range	Divisions	Certified @	Qty	List
T105-451	62C	-38 to +2°C	0.1°C	-37°, -30°, -20°, -10°, 0°C	1/ea	\$484.54
T105-465	63C	-8 to 32°C	0.1°C	-7°, 0°, 10°, 20°, 30°C	1/ea	\$414.23
T105-479	64C	+25 to 55°C	0.1°C	0°, 25°, 35°, 45°, 55°C	1/ea	\$465.56
T105-493	65C	+50 to 80°C	0.1°C	0°, 50°, 60°, 70°, 80°C	1/ea	\$481.98
T105-507	66C	+75 to 105°C	0.1°C	0°, 75°, 85°, 95°, 105°C	1/ea	\$506.30
T105-521	67C	+95 to 155°C	0.2°C	0°, 100°, 110°, 130°, 150°C	1/ea	\$543.72
T105-535	68C	+145 to 205°C	0.2°C	0°, 150°, 170°, 190°, 205°C	1/ea	\$765.74
T105-545	69C	+195 to 305°C	0.5°C	0°, 200°, 235°, 270°, 305°C	1/ea	\$765.74
T105-555	70C	+295 to 405°C	0.5°C	0°, 300°, 335°, 370°, 400°C	1/ea	\$895.49

Fahrenheit Scale

Part No.	ASTMNo.	Range	Divisions	Certified @	Qty	List
T105-458	62C	-36 to 35°F	0.2°F	-35°, -15°, 0°, 15°, 32°F	1/ea	\$484.54
T150-472	63C	+18 to 89°F	0.2°F	20°, 32°, 50°, 70°, 88°F	1/ea	\$414.23
T105-486	64C	+77 to 131°F	0.2°F	32°, 80°, 95°, 115°, 130°F	1/ea	\$465.56
T105-500	65C	+122 to 176°F	0.2°F	32°, 125°, 145°, 160°, 175°F	1/ea	\$481.98
T105-514	66C	+167 to 221°F	0.2°F	32°, 168°, 185°, 200°, 220°F	1/ea	\$506.30
T105-528	67C	+203 to 311°F	0.5°F	32°, 205°, 240°, 275°, 310°F	1/ea	\$543.72
T105-540	68C	+293 to 401°F	0.5°F	32°, 300°, 340°, 370°, 400°F	1/ea	\$765.74
T105-550	69C	+383 to 581°F	1.0°F	32°, 400°, 460°, 520°, 580°F	1/ea	\$765.74
T105-560	70C	+563 to 761°F	1.0°F	32°, 570°, 640°, 700°, 760°F	1/ea	\$895.49

ASTM - Precision Factory Certified Sets

Each Set Has 9 Certified Thermometers
 Traceable Calibration Documents Included
 Sets in Celsius or Fahrenheit
 (-37 to 400°C)(-35 to 760°F)
 Sets Packed in Protective Case
 Total & Partial Immersion Sets



Part No.	ASTM No.	Immersion	Ranges Covered	Qty	List
T106-391	62C Through 70C	Total	-37 to 400°C	1/ea	\$3797.63
T106-393	62F Through 70F	Total	-35 to 760°F	1/ea	\$3797.63
T106-390	62C Through 70C	Partial	-37 to 400°C	1/ea	\$3797.63
T106-392	62F Through 70F	Partial	-35 to 760°F	1/ea	\$3797.63

Autoclave

Autoclave Maximum Registering Armor Thermometer

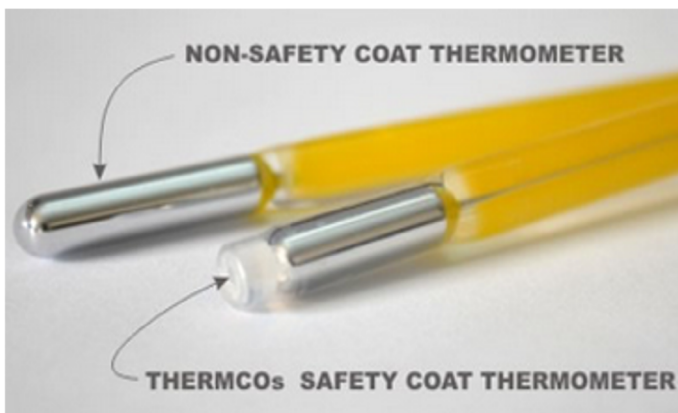
Autoclave Maximum Registering Thermometers are for validating autoclaves by monitoring the highest temperature attained during a sterilization cycle. These thermometers operate on the same principle as thermometers designed to measure fevers: the highest temperature attained is recorded and doesn't recede until the thermometer is shaken down.

Thermco's Autoclave Thermometers provide two layers of protection:

1) each thermometer is sealed in a (PTFE) jacket which will enclose the liquid and splintered glass within the coating should breakage occur, thereby protecting equipment from contaminants.

2) metal armored case constructed of nickel-plated brass to protect thermometer from rough handling & shock during use.

Thermco's Maximum Registering Autoclave Thermometers are a simple and inexpensive method for autoclave validation.





NIST Traceable
 Thermometers indicate highest temperature attained during use
 Verification for autoclaves and sterilizers
 Thermometer must be shaken down for each new reading
 Mounted in armor cases & sealed in PTEF jacket for protection
 Open face cases
 Individually Serialized
 Refills Available
 Safety Coat: Yes
 Divisions: 0.5°C
 Range: 80 to 135°C

Part No.	Description	Qty	List
T106-471	Maximum Registering Armored Thermometer	1/ea	\$114.77
T106-470	Maximum Registering Thermometer Refill	1/ea	\$103.12
T106-473	Armored Thermometer Certified @ 121°C	1/ea	\$269.72
T106-472	Thermometer Refill Certified @ 121°C	1/ea	\$249.72
T106-469	Armored Thermometer Certified @ 120°C for Dairies	1/ea	\$332.91
T106-468	Thermometer Refill Certified @ 120°C for Dairies	1/ea	\$282.35

Bi-Metal Dial

Bi-Metal Dial Thermometers

Quality construction and design with easy to read black scale on a white background. The accuracy of these thermometers is +/- 1% over the entire scale. All stainless steel case, stem and bezel for superior shock protection, even in extreme conditions. An external nut provides for easy recalibration. Immersion is approximately 2".

Range: 0 to 220°F
 Divisions: 2.0°F

Part No.	Dial x Stem	Qty	List
T106-763	1-3/4 x 8"	1/ea	\$29.98
T106-829	1 x 5"	1/ea	\$23.70

Range: -10 to 110°C

Part No.	Dial x Stem	Qty	List
T106-757	1-3/4 x 8"	1/ea	\$29.98



1", 1 3/4" & 2" Dial Thermometers with 5" & 8" stems are also available!

Bottles

ACCU-SAFE Enclosed Chamber Verification Bottle Thermometers

ACCU-SAFE Thermometers are environmentally friendly spirit filled

Non-Mercury thermometers sealed in a PTFE jacket that contains liquid & glass if breakage occurs and are housed in unbreakable plastic bottles filled with a non-toxic Bio-Safe medium. Economical, precise and reliable means of measuring critical temperatures in blood bank refrigerators, ultra-low freezers, freezers, refrigerators, incubators, ambient/room, block heaters and ovens. Each bottle thermometer has their own unique serial number and are supplied with a NIST Traceable Certificate.



- NIST Traceable
- Individually Serialized and Certificate Provided with each Thermometer Kit
- Thermometers in 0.1°C - 0.5°C and 1.0°C Divisions
- Environmentally Friendly Spirit Filled Thermometers
- Thermometers are Fluoropolymer Coated for Protection
- Unbreakable Bottle filled with Bio-Safe Glycol / Water Bottle Medium

Environmentally Friendly Spirit Filled Thermometers (Non-Mercury)

Part No.	Application	Range	Divisions	Height	Bottle Media	List
T106-577	Blood Banks Refrigerator	-5 to 20°C	0.5°C	145mm	Bio-Safe Glycol/Water - 250ml	\$98.95
T106-576	Blood Banks Refrigerator	-2 to 10°C	0.1°C	180mm	Bio-Safe Glycol/Water - 250ml	\$127.67
T106-751	Freezers	-25 to -5°C	0.1°C	120mm	Bio-Safe Glycol/Water - 60ml	\$99.00
T106-749	Freezers	-30 to 0°C	0.5°C	125mm	Bio-Safe Glycol/Water - 30ml	\$70.35
T106-840	Refrigerators	-2 to 10°C	0.1°C	240mm	Bio-Safe Glycol/Water - 60ml	\$98.95
T106-838	Refrigerators	-5 to 15°C	0.5°C	125mm	Bio-Safe Glycol/Water - 30ml	\$101.51
T106-802	Incubators	15 to 30°C	0.1°C	180mm	Bio-Safe Glycol/Water - 60ml	\$98.95
T106-798	Incubators	18 to 50°C	0.5°C	135mm	Bio-Safe Glycol/Water - 30ml	\$70.35
T106-804	Incubators	25 to 45°C	0.1°C	190mm	Bio-Safe Glycol/Water - 60ml	\$98.95
T106-575	Ambient/Room	+10 to 30°C	0.5°C	140mm	Bio-Safe Glycol/Water - 30ml	\$70.35
T106-819	Oven	20 to 130°C	1.0°C	135mm	Sand - 30ml	\$70.35
T106-823	Oven	50 to 115°C	0.5°C	240mm	Sand - 60ml	\$78.09
T106-821	Oven	35 to 200°C	1.0°C	145mm	Sand - 100 ml Glass Bottle	\$78.16
T106-898	Ultra-Low Freezers	-90 to 20°C	1.0°C	145mm	Sand - 60ml	\$84.70
T106-727	Block Heaters	18 to 60°C	0.5°C	125mm	Mineral Oil - 1ml	\$78.09
T106-728	Block Heaters	50 to 110°C	0.5°C	165mm	Mineral Oil - 1ml	\$78.09

Mercury Filled Thermometers (Hg)

Part No.	Application	Range	Divisions	Height	Bottle Media	List
T106-750	Freezers	-25 to -5°C	0.1°C	210mm	Bio-Safe Glycol/Water - 60ml	\$101.48
T106-745	Freezers	-30 to 0°C	0.5°C	115mm	Bio-Safe Glycol/Water - 30ml	\$72.95
T106-839	Refrigerators	-2 to 10°C	0.1°C	180mm	Bio-Safe Glycol/Water - 60ml	\$101.51
T106-834	Refrigerators	-5 to 15°C	0.5°C	125mm	Bio-Safe Glycol/Water - 30ml	\$72.95
T106-801	Incubators	15 to 30°C	0.1°C	180mm	Bio-Safe Glycol/Water - 60ml	\$101.51
T106-794	Incubators	18 to 50°C	0.5°C	135mm	Bio-Safe Glycol/Water - 30ml	\$72.95
T106-802	Incubators	25 to 45°C	0.1°C	190mm	Bio-Safe Glycol/Water - 60ml	\$101.51
T106-817	Oven	20 to 130°C	1.0°C	135mm	Sand 30ml	\$72.95
T106-821	Oven	95 to 115°C	0.1°C	200mm	Sand 60ml	\$78.16
T106-819	Oven	35 to 200°C	1.0°C	145mm	Sand 100ml	\$78.16



Digital**Traceable® Big-Digit Memory Thermometer**

Easy-view, 1-1/8" high jumbo digits may be read from 25'. External probe range is -58.0 to 158.0°F / -50.0 to 70.0°C. Ambient sensor (inside case) range is 23.0 to 122.0°F / -5.0 to 50.0°C. Resolution is 0.1° and accuracy is ±1°C. This stable and accurate unit requires no adjustment or maintenance. External (3/16" diameter by 4/5" length) probe is supplied with a 10' cable.

Probe Temp Range: -58.0 to 158.0°F (-50.0 to 70.0°C)
 Ambient Temp Range: 23.0 to 122.0°F (-5.0 to 50.0°C)
 Temp Min/Max Memory: Y



Part No.	Description	Qty	List
T501-292	Big-Digit Memory Thermometer	1/ea	\$62.03

Traceable® Lollipop™ Shock/Water-resistant Thermometer

New heads-up Lollipop™ Traceable® Water-Resistant/Shockproof Thermometer replaces hazardous mercury units and is ideal for wet labs, wash-down areas, outdoors and virtually all field applications. Shockproof in drop tests up to 5 feet. Stainless-steel probe is resistant to most laboratory chemicals. Wide range covers 99% of the lab's routine temperature measurements. Solid-state construction eliminates dangers inherent in breakable glass and toxic mercury thermometers.

Probe Temp Range: -50.0 to 300.0°C (-58.0 to 572.0°F)
 Temp Resolution: 0.1° from -20 to 200°C; or 1°C elsewhere
 Temp Min/Max Memory: Y



Part No.	Description	Qty	List
T501-415	Shock/Water-resistant Thermometer	1/ea	\$40.63

Traceable® Long-Stem Thermometer

Perfect-sized unit fits into flasks, cuvettes, test tubes, beakers, ovens and incubators. Read temperatures in foods, gases, samples, reagents, water baths and semisolids. Stainless-steel probe is resistant to most laboratory chemicals. ABS plastic and stainless-steel construction (no glass or mercury) makes it safe. Readings are updated every second.

Probe Temperature Range: -50 to 150°C (-58 to 302°F)
 Temp Accuracy: ±1°C between (-30 to 150°C), otherwise ±2°C
 Temp Resolution: 0.1° from -20 to 200° (1° Otherwise)
 Probe: Stainless Steel



Part No.	Description	Qty	List
T400-001	Long-Stem Thermometer	1/ea	\$42.75

Traceable® Long-Stem Thermometer

Perfect-sized unit fits into flasks, cuvettes, test tubes, beakers, ovens and incubators. Read temperatures in foods, gases, samples, reagents, water baths and semisolids. Stainless-steel probe is resistant to most laboratory chemicals. ABS plastic and stainless-steel construction (no-glass or mercury) makes it safe. Readings are updated every second.

Probe Temperature Range: -50 to 150°C (-58 to 302°F)
 Temp Accuracy: ±0.2° at tested points, ±1°C between -20 to 120°C Otherwise
 Temp Resolution: 0.1° from -20 to 200° (1° Otherwise)
 Probe: Stainless Steel



Part No.	Description	Qty	List
T400-002	Long-Stem Thermometer	1/ea	\$83.75

TraceableLIVE®

Get Connected. Get Notified. Get TraceableLIVE®

TraceableLIVE® is the simple, efficient and reliable way to monitor your critical environments wherever you go. With TraceableLIVE®, you're always connected to your controlled chambers and ambient environments with your smartphone, tablet or personal computer.

For more information please visit this link:

<http://www.foxscientific.com/pdf/traceablelive.pdf>

Traceable® Infrared Thermometer Gun

Point-and-read gun provides temperature results of any surface in less than one second. Easy-read display is back-lit, has low-battery indicator and tracks maximum readings. DATA HOLD feature freezes display and gives time to accurately record readings. Emissivity is 0.95 fixed. Unit can take measurements in °C and °F and includes auto-off feature.

Range: -76 to 932°F and -60 to 500°C
 Resolution: 0.1°
 Accuracy: ±2°C or 2% of reading
 Field of view: 11:1 (reads a spot the size of 2 inches from 22 inches away).
 Low-battery indicator
 °C/°F key
 Auto-off feature



Part No.	Description	Qty	List
T400-208	Infrared Thermometer Gun	1/ea	\$171.33

Traceable® Digital Dial Therm. °F/°C

Readings updated every 10 seconds. Wide temperature range combines range of over 90 different mercury thermometers making it an ideal lab partner. Large, bright 3/8-inch-high LCD.

Probe Range: -58 to 572°F and -50 to 300°C
 Resolution: 0.1°
 Accuracy: ±1°C between -20 to 100°
 # of Probes: 1 Stainless-Steel Probe
 Probe Dimensions: 4¾" stem length x 0.19 inch diameter
 Supplied With: Protective Case, Battery, Traceable® Certificate



Part No.	Description	Qty	List
T501-244	Digital Dial Therm. °F/°C	1/ea	\$41.10

Digital Memory Monitoring Traceable® Thermometer

Accurately monitors temperatures in any environment with high and low readings.

Range: -50 to 70°C (-58 to 158°F)
 Resolution: 1°
 Accuracy: ±1°C



Part No.	Description	Qty	List
T501-248	Memory Monitoring Traceable® Thermometer	1/ea	\$70.63

Large Digit Triple Display Current-Min-Max Temp Digital Bottle Thermometer

Temperature certified for freezers, refrigerators incubators and ambient/room. 30ml Bottle probe filled with Bio-Safe medium. An audible alarm will sound when the temperature rises above or goes below the set temperatures. NIST Traceable. °C and °F Switchable. Each thermometer individually serialized. Bottles Have Dual Magnets - Thermometers have Hook & Loop Fastners.

Resolution: 0.1°C & °F
 Accuracy: ±0.5°C & °F
 Range: -50° to 70°C
 Bottle Media: 30ml Bio-Safe Glycol/Water
 Supplied with: AAA alkaline battery; Nine foot micro-cable probe



Part No.	Application	Certified @	Qty	List
T106-538	Freezers	-20.0°C	1/ea	\$69.79
T106-542	Refrigerators	+4.0°C	1/ea	\$69.79
T106-540	Incubators	+37.0°C	1/ea	\$69.79
T106-535	Ambient / Room	+22.0°C	1/ea	\$69.79

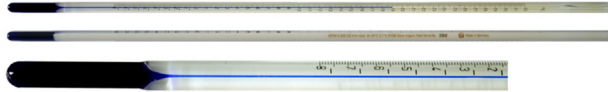


Instruments

Part No.	ASTM #	IP Equiv	Name	Range	Division	Immersion	Length	List
T105-605	78F		Saybolt Viscosity	295 / 315°F	0.5°F	TOTAL	280mm	\$77.21
T105-609	79F		Saybolt Viscosity	345 / 365°F	0.5°F	TOTAL	280mm	\$77.21
T105-613	80F		Saybolt Viscosity	395 / 415°F	0.5°F	TOTAL	280mm	\$77.21
T105-615	81F		Saybolt Viscosity	445 / 465°F	0.5°F	TOTAL	280mm	\$77.21
T105-852	108F		Saybolt Viscosity	270 / 290°F	0.5°F	TOTAL	280mm	\$98.09
T105-856	109F		Saybolt Viscosity	320 / 340°F	0.5°F	TOTAL	280mm	\$98.09
T105-925	123C	95C	Brookfield Viscosity	-35 / -25°C	0.1°C	TOTAL	305mm	\$163.23
T105-929	124C	96C	Brookfield Viscosity	-25 / -15°C	0.1°C	TOTAL	305mm	\$163.23
T105-933	125C	97C	Brookfield Viscosity	-15 / -5°C	0.1°C	TOTAL	305mm	\$163.23
T105-978	133C		Precision	-38 / 2°C	0.1°C	76mm	384mm	\$133.42

Spirit

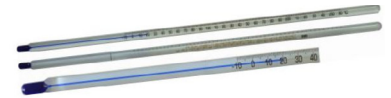
ASTM - LIKE Blue Spirit Thermometers (Non Mercury)



Part No.	ASTM #	Name	Range	Division	Immersion	Length	List
T105-015	S1C	Partial Immersion	-20 to 150°C	1.0°C	76mm	327mm	\$79.79
T105-019	S1F	Partial Immersion	0 to 302°F	2.0°F	76mm	327mm	\$79.79
T105-040	S5C	Cloud & Pour	-38 to 50°C	1.0°C	108mm	235mm	\$101.74
T105-044	S5F	Cloud & Pour	-36 to 120°F	2.0°F	108mm	235mm	\$101.74
T105-136	S19C	Saybolt Viscosity	+49 to 57°C	0.1°C	TOTAL	280mm	\$91.95
T105-140	S19F	Saybolt Viscosity	+120 to 134°F	0.2°F	TOTAL	280mm	\$91.95
T105-144	S20C	Saybolt Viscosity	+57 to 65°C	0.1°C	TOTAL	280mm	\$93.54
T105-148	S20F	Saybolt Viscosity	+134 to 148°F	0.2°F	TOTAL	280mm	\$93.54
T105-152	S21C	Saybolt Viscosity	+79 to 87°C	0.1°C	TOTAL	280mm	\$96.37
T105-156	S21F	Saybolt Viscosity	+174 to 188	0.2°F	TOTAL	280mm	\$95.40
T105-662	S88C	Vegetable Oil Flash	+10 to 200°C	1.0°C	57mm	292mm	\$87.05
T105-666	S88F	Vegetable Oil Flash	+50 to 392°F	2.0°F	57mm	292mm	\$87.05
T105-719	S99C	Weathering Test	-50 to 5°C	0.2°C	35mm	305mm	\$343.00
T105-722	S99F	Weathering Test	-58 to 41°F	0.5°F	35mm	305mm	\$343.00

Accu-Safe General Laboratory Thermometer

Accu-Safe Liquid-In-Glass Thermometers are filled with a biodegradable liquid and dye, which eliminates the hazards of mercury in the case of breakage and/or disposal. The safety-coated thermometers protect against breakage and contain the liquid and glass inside the coating for safety and easy disposal. A Certificate of Accuracy is included with each thermometer. Each thermometer is serialized and has blue liquid against a white background for ease of reading.



Range: -10 to 260°C
 Immersion: 76mm
 Length: 305mm

Part No.	Description	Qty	List
T106-037	Accu-Safe General	1/ea	\$30.35



Safety Coated Precision Spirit Thermometer

NIST Traceable, Completely sealed in a PTFE Jacket, Safety jacket contains liquid and glass if breakage occurs. Thermometer is impervious to acids and alkalis and is individually serialized.

Range: 0 to 300°F
 Immersion: 76mm
 Length: 300mm



Part No.	Description	Qty	Qty	List
T106-340	Safety Coated	1/ea	1/ea	\$55.35

ASTM "APPROVED" - Blue Spirit Thermometers

ASTM PRECISIONS

Part No.	ASTM #	Name	Range	Division	Immersion	Length	Qty	List
T105-452	0S62C	PRECISION	-38 to +2°C	0.1°C	TOTAL	400mm	1/ea	\$226.37
T105-459	0S62F	PRECISION	-36 to +35°F	0.2°F	TOTAL	400mm	1/ea	\$226.37
T105-466	0S63C	PRECISION	-8 to +32°C	0.1°C	TOTAL	400mm	1/ea	\$201.09

ASTM PRECISIONS Certified Temperatures

Part No.	ASTM #	Name	Range	Division	Immersion	Length	Qty	List
T105-473	0S63F	PRECISION	+18 to 89°F	0.2°F	TOTAL	400mm	1/ea	\$201.09
T105-480	0S64C	PRECISION	+25 to 55°C	0.1°C	TOTAL	400mm	1/ea	\$220.00
T105-487	0S64F	PRECISION	+77 to 131°F	0.2°F	TOTAL	400mm	1/ea	\$220.00
T105-494	0S65C	PRECISION	+50 to 80°C	0.1°C	TOTAL	400mm	1/ea	\$290.88
T105-501	0S65F	PRECISION	+122 to 176°F	0.2°F	TOTAL	400mm	1/ea	\$226.37
T105-508	0S66C	PRECISION	+75 to 105°C	0.1°C	TOTAL	400mm	1/ea	\$308.72
T105-515	0S66F	PRECISION	+167 to 221°F	0.2°F	TOTAL	400mm	1/ea	\$240.26
T105-522	0S67C	PRECISION	+95 to 155°C	0.2°C	TOTAL	400mm	1/ea	\$240.36
T105-529	0S67F	PRECISION	+206 to 311°F	0.5°F	TOTAL	400mm	1/ea	\$240.36

ASTM APPLICATIONS

Part No.	ASTM #	Name	Range	Division	Immersion	Length	Qty	List
T105-040	S5C	Cloud & Pour	-38 to 50°C	1.0°C	108mm	235mm	1/ea	\$101.74
T105-044	S5F	Cloud & Pour	-36 to +120°F	2.0°F	108mm	235mm	1/ea	\$101.74
T105-082	S12C	Gravity	-20 to 102°C	0.2°C	TOTAL	425mm	1/ea	\$175.42
T105-086	S12F	Gravity	-5 to 215°F	0.5°F	TOTAL	425mm	1/ea	\$175.42
T105-102	S15C	Low Softening Point	-2 to 80°C	0.2°C	TOTAL	400mm	1/ea	\$128.88
T105-107	S15F	Low Softening Point	+30 to 180°F	0.5°F	TOTAL	400mm	1/ea	\$128.88
T105-128	S18C	Saybolt Viscosity	+34 to 42°C	0.1°C	TOTAL	280mm	1/ea	\$120.51
T105-132	S18F	Saybolt Viscosity	+94 to 108°F	0.2°F	TOTAL	280mm	1/ea	\$120.51
T105-161	S22C	Saybolt Viscosity	+98 to 103°C	0.1°C	TOTAL	280mm	1/ea	\$130.16
T105-166	S22F	Saybolt Viscosity	+204 to 218°F	0.2°F	TOTAL	280mm	1/ea	\$130.16

Thermometer Accessories

Stainless Steel Thermometer Holder with Clip

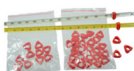
Holder has 5 holes of assorted diameters.
 Holds thermometers, test tubes, electrodes, etc.
 Stainless steel clip and platform with rubber pads.



Part No.	Description	Qty	List
T106-891	Holder w/Clip	1/ea	\$83.33

Thermometer Anti-Roll Sleeve

Mold Polypropylene.
 Slides onto Thermometer.
 Fits Thermometers 5 to 11mm O.D.



Part No.	Description	Qty	List
T107-666	Anti-Roll Sleeves	25/pk	\$5.33

H-B Liquid-in-Glass Thermometer Non-Roll Fittings; PVC Plastic

Made from recyclable PVC, these plastic fittings prevent thermometers from rolling.
 Choice of ring top or triangular fittings.

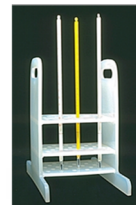


Part No.	Description	Qty	List
M442-266	Triangular; Purple	25/pk	\$42.23
M442-267	Ring Top; Purple	25/pk	\$42.23

Thermometer Rack - HDPE

Suitable for holding up to 25 thermometers in the correct vertical position, thus avoiding mercury separation, which may occur when thermometers are stored improperly.

Manufactured from 1/4" high density polyethylene, the rack is sturdy and will not tip. Sides have large comfortable carry handles for easy transport of the thermometers. Hole diameters in top and middle plates 5/16". The bottom plate has convenient 1/8" drain holes.



Part No.	Description	Qty	List
R650-001	HDPE Thermometer Rack	1/ea	\$69.68

Thermometer Rack - Polypropylene

Safely Holds Up to 25 Thermometers This polypropylene rack holds up to 25 thermometers in a safe vertical position to avoid damage while drying. Hole diameters in the top and middle plates are 7.9mm (5/16") while the bottom plate has only 3.2mm (1/8") diameter drain holes. The distance between top and bottom plates is 105mm (4 1/8"). Overall dimensions are: 149 x 213 x 251 mm (5 7/8" x 8 3/8" x 9 7/8") Steam autoclavable at 121°C (250°F).



Part No.	Description	Qty	List
T106-897	Polypropylene Rack	1/ea	\$88.51

H-B Instrument Angled Liquid-in-Glass Thermometer Storage Trays

Store liquid-in-glass thermometers at an angle to prevent liquid separation
Recyclable trays feature a built in angle to prevent separation of thermometer liquid.

Available in 3 or 14 slot versions with numbered slots

Made from 2mm polystyrene

UV coated



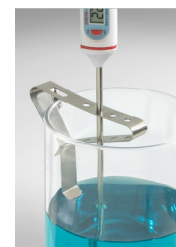
Part No.	Description	Qty	List
M442-250	14 Slots; (17.4 x 13.4 x 1.2")	2/pk	\$97.05
M442-251	3 Slots; (17 x 4 x 1.3")	5/pk	\$112.35

H-B Beaker Clip Liquid-in-Glass Thermometer Holder, Multi-Probe

Holds up to 4 thermometer probes with 3.5-4.0mm O.D. at one time.

Clips easily onto the side of any beaker

Made from SUS304 stainless steel



Part No.	Description	Qty	List
M442-253	76 x 38mm (3 x 1.5")	1/ea	\$13.13

Universal Implement Stand

Keep rounded items from rolling off the bench

Secure pipettes, stirring rods, burettes, thermometers, pencils and more in this handy holder with semi-circular notches.

Especially useful as a sterile hood tool

Molded of polypropylene

Dimensions: 8.3 dia. x 5.9cm H (3 5/16 x 2 3/16")

Steam autoclavable at 121°C (250°F)



Part No.	Description	Qty	List
R100-306	Universal Implement Stand	2/pk	\$35.85

Magn-O-Fier

Allows precise readings from a distance

Magnifies 2 1/2 Times

The hide-a-line eliminates parallax

Fastens to any thermometer 5 to 9mm OD

Slides up and down stem



Part No.	Description	Qty	List
T106-896	Magn-O-Fier	1/ea	\$59.93



LIFE SCIENCES

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With such a wide selection of products from multiple manufacturers, not all options are listed here. If you do not see a product which meets the specifications you need, please feel free to contact us.

BOTTLES

Solution

Solution Bottles

Compatible with bottle top filters or for use as solution storage containers. Polystyrene bottles are packaged sterile (gamma irradiated) in bags. Graduated: 25mL Increments



Part No.	Description	Qty	List
L140-281	150mL	24/cs	\$63.00
L140-282	250mL	24/cs	\$68.00
L140-283	500mL	24/cs	\$95.00
L140-284	1000mL	24/cs	\$172.00

Roller

Roller Bottles

- 1000mL volume with 490cm² of surface area
- 2000mL volume with 850cm² of surface area
- Large knurled cap for easy grip
- Vented or non-vented cap for open or closed systems
- Manufactured from USP Class VI polystyrene
- Available vacuum gas plasma tissue culture treated or non-treated
- Uniform, hydrophilic surface facilitates cell attachment
- Easy-to-read black printed graduations
- Packaged sterile (gamma irradiated) in individual bags



Part No.	Growth Area	Sterile	Cap	Qty	List
L140-080	490cm ²	Yes	Non-Vented	24/cs	\$147.00
L140-081	490cm ²	Yes	Vented	24/cs	\$157.99
L140-082	850cm ²	Yes	Non-Vented	12/cs	\$84.00
L140-083	850cm ²	Yes	Vented	12/cs	\$91.00
L140-181	1000mL	Yes	Non-Vented	24/cs	\$132.00
L140-182	2000mL	Yes	Non-Vented	12/cs	\$74.00

Expanded Surface Roller Bottles

Ribbed surface increases surface area from 850cm² to 1900cm².
Grow more cells without the added cost of additional bottles or roller apparatus.

Part No.	Growth Area	Sterile	Cap	Qty	List
L140-084	1900cm ²	Yes	Non-Vented	12/cs	\$138.00
L140-085	1900cm ²	Yes	Vented	12/cs	\$148.00

Autofil® Polypropylene Centrifuge Bottles

These bottles are specifically made to assist life science researchers in processing samples for cell suspensions, cell lysates, tissue homogenates and organ homogenates applications. The standard screw cap offers a leak-proof protection along with its silicone O-ring. The bottles also comes with thick walls for durability and wide mouths for ease in filling and transferring liquids.

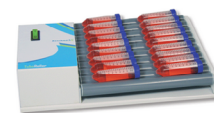
Non-Sterile



Part No.	Description	Cap Style	Qty	List
C500-121	250mL PP	Screw Cap	36/cs	\$349.43
C500-125	500mL PP	Screw Cap	24/cs	\$327.70
C500-123	250mL PP	Seal Cap	36/cs	\$588.88
C500-127	500mL PP	Seal Cap	24/cs	\$758.00

Tube Rollers

Benchmark Tube Rollers are designed for the gentle, thorough mixing of a variety of containers, including Vacutainers™, bottles, test tubes, centrifuge tubes and roller bottles. Both models (5 roller and 10 roller) operate at a constant 38rpm, chosen as the optimum speed for the broadest range of mixing requirements. Smooth +/-5° tilt action; For tubes/bottles from 8mm to 200mm diameter.



Part No.	Description	Qty	List
E400-031	Tube Roller w/5 Rollers	1/ea	\$795.00
E400-033	Tube Roller w/10 Rollers	1/ea	\$1195.00



Accessories

Cell Strainers & Pestle

Polypropylene housing with nylon mesh filter eliminates the need to fabricate filters from gauze, paper, nylon mesh or other materials.

Elongated lip on housing extends beyond edge of centrifuge tube enabling aseptic handling with forceps. Extended gripping tab on housing for easy handling; Color coded by mesh porosity for easy identification. Packaged sterile (gamma irradiated) in individually wrapped peel-to-open paper/plastic wrapper or bulk packed in bags.

Cell Strainer Pestle

Convex Pestle head includes molded textured surface to better manipulate material in the cell strainer.

5.5in length for convenient hand manipulation.

Packaged sterile (gamma irradiated) individually wrapped on peel-to-open paper/plastic wrapper.



Cell Strainer - Sterile

Part No.	Description	Tube Color	Qty	List
L140-158	40µm; Individually Wrapped	Blue	50/cs	\$108.00
L140-159	40µm; Bulk Packed	Blue	50/cs	\$104.00
L140-160	70µm; Individually Wrapped	White	50/cs	\$108.00
L140-161	70µm; Bulk Packed	White	50/cs	\$104.00
L140-162	100µm; Individually Wrapped	Yellow	50/cs	\$108.00
L140-163	100µm; Bulk Packed	Yellow	50/cs	\$104.00

Pestle & Cell Strainer - Sterile

Part No.	Description	Tube Color	Qty	List
L140-157	Individually Wrapped	Green	50/cs	\$46.00

EZFlow® Cell Strainers

These cell strainers are sterile, rapid, easy-to-use devices for consistently obtaining uniform single-cell suspensions from tissues.

Manufactured from a strong nylon mesh with evenly spaced mesh pores.

Extended lip on the strainer enables aseptic handling with forceps.

Designed to fit into a 50mL conical tube; Sterilized by gamma irradiation.

Individually packaged to ensure strainers remain contamination free.



Sterile

Part No.	Description	Tube Color	Qty	List
C500-477	40µm	Blue	50/cs	\$110.58
C500-478	70µm	White	50/cs	\$110.58
C500-479	100µm	Yellow	50/cs	\$110.58

FLASKS - TISSUE CULTURE

Tissue Culture Treated Flasks

Improved 75cm² & 182cm² flask features thicker, more durable walls, improved stacking capability and printed lot numbers. Uniform Hydrophilic surface is ideal for consistent cell attachment.

Vent caps feature 0.22µm hydrophobic membrane. Canted neck design for easy access.

Packaged sterile (gamma irradiated) in zip-closure bags.



Part No.	Size	Capacity	Cap Style	Qty	List
L140-072	75cm ²	250mL	Plug Seal	100/cs	\$202.00
L140-075	182cm ²	600mL	Vent Cap	40/cs	\$184.00
L140-068	12.5cm ²	25mL	Plug Seal	200/cs	\$200.00
L140-069	12.5cm ²	25mL	Vent Cap	200/cs	\$212.00
L140-070	25cm ²	50mL	Plug Seal	200/cs	\$208.00
L140-071	25cm ²	50mL	Vent Cap	200/cs	\$224.00
L140-073	75cm ²	250mL	Vent Cap	100/cs	\$213.00
L140-074	182cm ²	600mL	Plug Seal	40/cs	\$174.00
L140-078	225cm ²	700mL	Plug Seal	25/cs	\$135.00
L140-079	225cm ²	700mL	Vent Cap	25/cs	\$146.00
L140-076	300cm ²	1250mL	Plug Seal	18/cs	\$188.00
L140-077	300cm ²	1250mL	Vent Cap	18/cs	\$199.00

Tissue Culture Non-Treated Suspension Flasks

Suspension culture flasks are not tissue culture treated. Hydrophobic surface does not facilitate cell attachment. Provided with 0.22µm hydrophobic membrane vent cap to allow gas exchange. Packaged sterile (gamma irradiated) in zip-closure bags.



Part No.	Capacity	Cap Style	Qty	List
L140-169	50mL	Vent Cap	200/cs	\$198.00
L140-165	25mL	Vent Cap	200/cs	\$189.00
L140-171	250mL	Vent Cap	100/cs	\$186.00
L140-173	600mL	Vent Cap	40/cs	\$168.00
L140-174	850mL	Vent Cap	18/cs	\$177.00

Tissue Culture Flask Accessories

Polypropylene Racks

These polypropylene racks hold 25cc, 75cc (50 - 75mL or 250 - 260mL) or similar sized tissue culture flasks in a vertical position. Flasks can be easily organized to improve processing and to avoid errors in collecting used media, media change, washing of cell monolayer, trypsinization and seeding of cells. Rectangular holes in the top and center plates stabilize the flasks preventing tipping. Grips on each end make rack handling easy and allow for safe transport of flasks to the incubator. Steam autoclavable at 121°C (250°F)



Part No.	Fits Flasks	# of Flasks	Dimensions	Qty	List
R100-304	75mL	12	9.1 x 5.4 x 4.2"	1/ea	\$92.85
R100-305	260mL	5	11.7 x 4.9 x 5"	1/ea	\$82.13

Stak-A-Tray System

Modular rack and tray system maximizes storage for Petri dishes and cell culture flasks in incubators, cold rooms or on the bench.

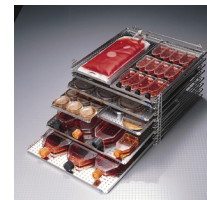
Each rack has 4 tier; stack up to five racks for 20 levels of storage.

Perforated trays allow air flow and slide easily in the rack.

Each tier accommodates one large or two small trays.

All parts are stainless steel; autoclavable at 121°C (250°F).

Racks and trays sold separately.



Part No.	Description	Qty	List
R100-023	Frame w/2 Center Supports (for larger culture flasks) 5cm (1.96") clearance between trays	1/ea	\$589.00
R100-024	Frame w/4 Center Supports (for petri dishes and small culture flasks)..... 2.4cm (0.96") clearance between trays	1/ea	\$589.00
R100-025	Small tray 17.8 x 35.6cm (7 x 14")	1/ea	\$119.08
R100-026	Large tray 35.6 x 35.6 (14 x 14")	1/ea	\$170.50

Item Size	Large Tray Holds	Small Tray Holds
35 x 100mm dish	64	32
5 x 12mm dish	36	18
60 x 12mm plastic dish	36	17
60 x 15mm plastic dish	25	12
100 x 10mm dish	13	6
100 x 15mm dish	13	6
100 x 20mm dish	13	6
150 x 20mm dish	4	2
150 x 25mm dish	4	2
125 x 15mm square	4	2



HISTOLOGY & CYTOLOGY

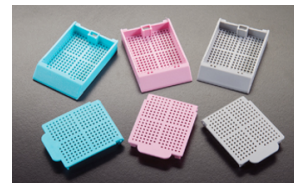
Cassettes

Histosette® II Biopsy Processing / Embedding Cassettes

Made of acetal

Most convenient for cassette labeling instruments but specially designed to hold biopsy specimens during the embedding process, as well as in a storage file. The covers are already removed from cassettes and are packaged separately in the case.

Anterior writing area is at a 45° angle to make the cassette more suitable to be used with certain types of cassette labeling instruments. Each case contains 2 dispenser boxes of 500 cassettes and 1 dispenser box of 1000 covers.

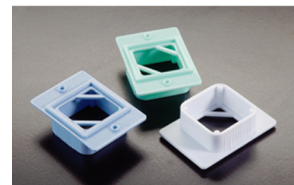


Part No.	Color	Qty	List
M650-143	White	1000/cs	\$177.20
M650-144	Pink	1000/cs	\$177.20
M650-145	Green	1000/cs	\$177.20
M650-146	Yellow	1000/cs	\$177.20
M650-147	Blue	1000/cs	\$177.20
M650-148	Peach	1000/cs	\$177.20
M650-149	Tan	1000/cs	\$177.20
M650-150	Gray	1000/cs	\$177.20
M650-140	Lilac	1000/cs	\$177.20
M650-141	Orange	1000/cs	\$177.20
M650-142	Aqua	1000/cs	\$177.20

Embedding Rings

Made of high impact polystyrene

Embedding rings are suitable for holding and identifying tissue sample blocks and fit well in microtome chuck adapters. The etched writing surface on the ring is marked with an identification number and placed on top of the sample block. Additional paraffin is poured into the base mold to cement the ring onto the tissue block. The embedding ring securely holds the tissue sample in the microtome chuck adapter for sectioning and then identifies the sample while in storage. Rings are available in different colors. Each case contains 4 dispenser boxes of 250 rings.



Part No.	Color	Qty	List
M650-014	White	1000/cs	\$163.00
M650-015	Pink	1000/cs	\$163.00
M650-016	Green	1000/cs	\$163.00
M650-017	Yellow	1000/cs	\$163.00
M650-018	Blue	1000/cs	\$163.00

Tissue Capsules

Made of polypropylene

These capsules are suitable for holding tissue samples during processing. The lids have a frosted write-on area for sample identification and an open mesh area to facilitate fluid exchange. The entire surface of the base is also an open mesh. The lid snaps securely on the base, eliminating the risk of tissue loss during processing.

White



Part No.	Size (mm)	Qty	List
M650-019	28 x 5 H	1000/cs	\$276.45
M650-020	38 x 10 H	1000/cs	\$276.45

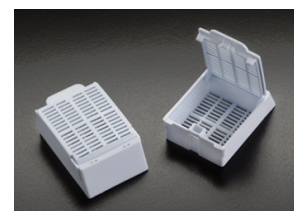
Macrosette™ Processing / Embedding Cassettes (with lid)

Made of acetal

Disposable plastic cassettes designed to hold larger tissue specimens during the embedding process, as well as in a storage cabinet. Dimensions are exactly the same as the ones of a regular Histosette® cassette but the Macrosette® is twice as high (13mm).

The one-piece integral lid eliminates the need for separate steel lids. It can be opened and closed as often as necessary and will always relock securely without danger of specimen loss. Large labeling areas are located on three sides of the cassettes for your convenience. Each case contains three dispenser boxes of 250 cassettes.

Dimensions: 40.1 x 28.5 x 13mm H (1 9/16 x 1 1/8 x 1/2" H)



Part No.	Color	Qty	List
M650-357	White	750/cs	\$314.18

Cassettes in E-Z Load™ Stacks

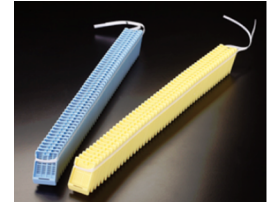
Made of acetal.

This stack of cassettes allows you to load the Shur/Mark® Cassette Labeling Instruments in one simple operation. Save time and money with these convenient stacks of 50 unique Simport® cassettes. No more manual insertion, one cassette at a time. Just load the stack in the hopper, cut and remove the holding tie and you are ready for printing.

These specially designed cassettes belong to the world-wide known Simport® Histosette® II design. Molded from a special high density polymer, these cassettes keep specimens safely submerged in liquid and are totally resistant to the chemical action of histological solvents. The efficient flow-through slots maximize fluid exchange and ensure proper drainage.

Two types of cassettes are offered in order to suit your particular needs: a regular tissue cassette and a biopsy model designed to hold small biopsy samples securely during the embedding process.

Anterior printing area is at a 45° angle.



TISSUE CASSETTES (In stacks of 50)

Part No.	Color	Qty	List
M650-091	White	2000/cs	\$351.43
M650-093	Pink	2000/cs	\$351.43
M650-095	Green	2000/cs	\$351.43
M650-097	Yellow	2000/cs	\$351.43
M650-099	Blue	2000/cs	\$351.43
M650-101	Peach	2000/cs	\$351.43
M650-103	Tan	2000/cs	\$351.43
M650-105	Gray	2000/cs	\$351.43
M650-085	Lilac	2000/cs	\$351.43
M650-087	Orange	2000/cs	\$351.43
M650-089	Aqua	2000/cs	\$351.43

TISSUE CASSETTE LIDS (In stacks of 50)

Part No.	Color	Qty	List
M650-092	White for M482-BA	2000/cs	\$104.98
M650-094	Pink for M482-3BA	2000/cs	\$104.98
M650-096	Green for M482-4BA	2000/cs	\$104.98
M650-098	Yellow for M482-5BA	2000/cs	\$104.98
M650-100	Blue for M482-6BA	2000/cs	\$104.98
M650-102	Peach for M482-7BA	2000/cs	\$104.98
M650-104	Tan for M482-8BA	2000/cs	\$104.98
M650-106	Gray for M482-9BA	2000/cs	\$104.98
M650-086	Lilac for M482-10BA	2000/cs	\$104.98
M650-088	Orange for M482-11BA	2000/cs	\$104.98
M650-090	Aqua for M482-12BA	2000/cs	\$104.98

BIOPSY CASSETTES (In stacks of 50)

Part No.	Color	Qty	List
M650-113	White	2000/cs	\$351.43
M650-115	Pink	2000/cs	\$351.43
M650-117	Green	2000/cs	\$351.43
M650-119	Yellow	2000/cs	\$351.43
M650-121	Blue	2000/cs	\$351.43
M650-123	Peach	2000/cs	\$351.43
M650-125	Tan	2000/cs	\$351.43
M650-127	Gray	2000/cs	\$351.43
M650-107	Lilac	2000/cs	\$351.43
M650-109	Orange	2000/cs	\$351.43
M650-111	Aqua	2000/cs	\$351.43

BIOPSY CASSETTE LIDS (In stacks of 50)

Part No.	Color	Qty	List
M650-114	White for M483-2BA	2000/cs	\$104.98
M650-116	Pink for M483-3BA	2000/cs	\$104.98
M650-118	Green for M483-4BA	2000/cs	\$104.98
M650-120	Yellow for M483-5BA	2000/cs	\$104.98
M650-122	Blue for M483-6BA	2000/cs	\$104.98
M650-124	Peach for M483-7BA	2000/cs	\$104.98
M650-126	Tan for M483-8BA	2000/cs	\$104.98
M650-128	Gray for M483-9BA	2000/cs	\$104.98
M650-108	Lilac for M483-10BA	2000/cs	\$104.98
M650-110	Orange for M483-11BA	2000/cs	\$104.98
M650-112	Aqua for M483-12BA	2000/cs	\$104.98



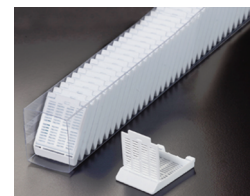
Slimsette™ Tissue Cassettes in QuickLoad™ Sleeves

Made of acetal.

The transparent sleeve allows viewing of cassettes in order to confirm there is no jam in the sleeve during the printing process.

This model is intended for tissue processing/embedding procedures. The efficient flow-through slots maximize fluid exchange and ensure proper drainage. Lids can be opened and closed as often as necessary and they always relock securely without danger of specimen loss. When ready for the embedding process, covers can conveniently be snapped off and discarded.

Anterior writing area at a 45° angle. Available in 11 colors. Each case contains 10 sleeves of 75 cassettes.



Part No.	Color	Qty	List
M650-309	White	750/cs	\$327.03
M650-311	Pink	750/cs	\$327.03
M650-313	Green	750/cs	\$327.03
M650-315	Yellow	750/cs	\$327.03
M650-317	Blue	750/cs	\$327.03
M650-319	Peach	750/cs	\$327.03
M650-321	Tan	750/cs	\$327.03
M650-323	Gray	750/cs	\$327.03
M650-303	Lilac	750/cs	\$327.03
M650-305	Orange	750/cs	\$327.03
M650-307	Aqua	750/cs	\$327.03

Modular Storage Drawer

Made of high impact polystyrene

This drawer provides permanent storage & identification of up to 165 embedding rings or 250 cassettes per drawer. It is stackable to any convenient height, thanks to interlocking ridges on top and bottom. Made of high impact resistant plastic. Identification labels included.



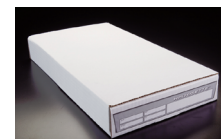
Part No.	Dimensions	Qty	List
M650-196	40.5 x 23 x 5.1cm H (15 7/8 x 9 1/8 x 2 1/8" H)	6/cs	\$240.98

Storage Drawer

Made of durable, waterproof, heavy-duty cardboard for long term storage.

Requires minimal space. Label and cardboard separators are provided for each box allows recording of specimen number, date and type of specimen. Each box can store up to 165 embedding rings or 250 cassettes.

Dimensions: 40.5 x 23 x 5.1cm H (15 7/8 x 9 1/8 x 2 1/8" H)



Part No.	Material	Qty	List
M650-201	Heavy-Duty Cardboard	12/cs	\$86.48

Stainless Base Molds

Sizes fit most cassettes. Superior thermal exchange. These molds are for all applications in specimen embedding with all styles of Embedding Rings and Cassettes.

Manufactured from high-quality stainless steel for optimal thermal conductivity, the molds have a highly polished surface for easy paraffin block removal. Well corners are rounded for optimal paraffin ribboning.

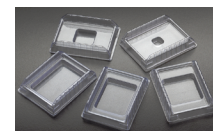


Part No.	Size (mm)	Qty	List
M650-040	7 x 7 x 5	12/cs	\$101.38
M650-041	15 x 15 x 5	12/cs	\$101.38
M650-042	24 x 24 x 5	12/cs	\$101.38
M650-043	30 x 24 x 5	12/cs	\$101.38
M650-044	37 x 24 x 5	12/cs	\$101.38

Disposable Base Molds

Made of PVC

Simpport® disposable base molds offer ease and convenience of operation. They are inexpensive enough to be discarded after use, yet strong enough to be reused. Thanks to the specially formulated plastic material, they offer excellent thermal exchange. They have a smooth interior finish and rounded corners facilitating specimen removal. Also, they are available in the same variety of sizes as metal molds and can be used with the same styles or types of cassettes and embedding rings. Each case contains two dispenser boxes of 500 base molds.



Part No.	Size (mm)	Qty	List
M650-046	7 x 7 x 5	1000/cs	\$207.60
M650-048	15 x 15 x 5	1000/cs	\$207.60
M650-049	24 x 24 x 5	1000/cs	\$207.60
M650-050	30 x 24 x 5	1000/cs	\$207.60
M650-051	37 x 24 x 5	1000/cs	\$207.60

Funnels

CytoSep™ Cytology Funnel Clip

Made of Stainless Steel .

The Simport® CytoSep™ Metal Cytology Funnel Clip is similar in design to the model previously provided by Shandon. It will hold the Cytology Funnel disposable sample chamber against the microscope slide in the Thermo Scientific™ Cytospin™ Cytocentrifuge. This Simport® reusable metal clip is autoclavable and will not rust or corrode during decontamination. Use with CytoSep™ Cytology Funnels.

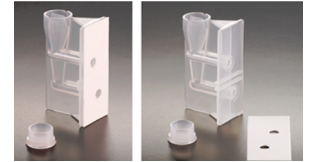


Part No.	Description	Qty	List
M650-509	Metal Cytology Funnel Clip	6/cs	\$191.73

Double CytoSep™ Cytology Funnels

For Shandon Cytospin® 4 Cytocentrifuge

The Simport® Double CytoSep™ Cytology Funnel with disposable sample chamber allows for two samples to be run simultaneously on a single slide and is ideal for immunohistochemistry work. The Double CytoSep™ Cytology Funnel provides a cell deposition area of 6mm (28mm square) for sample volumes of up to 0.5mL. The filter card comes pre-attached. Cap is included. Can be use with all stainless steel slide clips. Each component is also available separately.



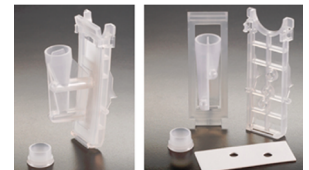
Part No.	Description	Qty	List
M650-507	Double Funnel with White Filter & Cap	500/cs	\$887.20
M650-508	Individually wrapped Double Funnel with White Filter & Cap	500/cs	\$1259.83
M650-506	Double Funnel only	500/cs	\$651.78
M650-517	Cap only	500/cs	\$168.13
M650-520	White Filter Paper for Double Funnel	200/cs	\$65.68

All Plastic Double CytoSep™ Cytology Funnels

For Shandon Cytospin® 4 Cytocentrifuge

This CytoSep™ Cytology Funnel allows two sample deposition areas on a single slide. The disposable sample chambers do not need metal clips. inserted filter card.

This Sample Chamber is also disposable.



Part No.	Description	Qty	List
M650-514	Double Funnel whit White Filter & Cap	480/cs	\$1231.85
M650-513	Double Funnel only	500/cs	\$513.85
M650-516	Base only	500/cs	\$252.73

White Filter Paper

For TPX Cytology Funnel

Filter Card for Shandon Reusable TPX Single Sample Chamber.



Part No.	Description	Qty	List
M650-521	White Filter Paper for TPX Cytology Funnel	200/cs	\$65.68

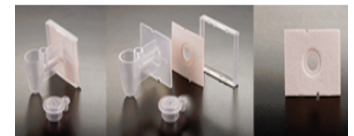
Single CytoSep™ Cytology Funnels

For ELITech Cytopro® Cytocentrifuge

These funnels will snap quickly in place, allowing the pad to align correctly with the sample tunnel.

Made with a compression ring around the sample hole in order to better control the rate of absorption and to ensure more consistent results.

Two ports, one in the sample well and one in the tunnel, provide great versatility. Samples are loaded directly through the chamber caps to prevent spilling of hazardous ones. Caps provide added safety to the operator. A large, centered cell deposit area makes screening easier and more sensitive.



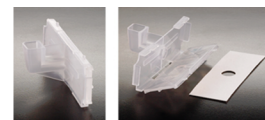
Part No.	Description	Qty	List
M650-528	Single Sample Chamber with White Filter Paper & Cap	48/cs	\$107.48
M650-530	White Filter Paper for Single Funnel	100/cs	\$46.78



Dual CytoSep™ Cytology Funnel

For StatSpin Cytofuge® 2 Cyto centrifuge

Simport® CytoSep™ Cytology Funnels for the StatSpin Cytofuge® 2 Cyto centrifuge allow cells to gently concentrate in a 7mm diameter area on the slide while supernatant is simultaneously absorbed by a filter card. Will accept 50-400µl of sample. Produces cell monolayer presentations of excellent quality. Disposable filter sold separately.



Part No.	Description	Qty	List
M650-746	Cell Concentrator	48/cs	\$123.18
M650-747	Disposable Filter Card	200/cs	\$149.80

Single CytoSep™ Cytology Funnel

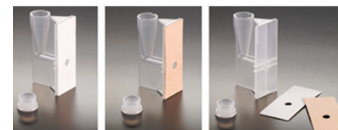
For Shandon Cytospin® 4 Cyto centrifuge

Fully compatible with the Shandon CytoSpin® Centrifuge, Simport® CytoSep™ Cytology Funnels can be used to deposit a thin layer of cells in a clearly defined area of a microscope slide. The filter card absorbs any excess fluid. These Cytology funnels have the filter cards pre-attached for consistent, reliable results. No alignment necessary. All disposable Funnels are packaged with closure caps to seal in specimen for added protection. All components also available separately.

For sample volumes of up to 0.5mL, use the Simport® Single CytoSep™ Cytology Funnel with a White Filter Card and Cap. It provides a cell deposition area of 6mm (28mm squared). Can be use with all stainless steel slide clips.

For samples volumes of up to 0.4mL, such as Spinal Fluids for example, use the Single CytoSep™ Cytology Funnel with Brown Filter Card and Cap. It allows for a slower absorption of fluids.

All the individual components are also available separately.



Part No.	Description	Qty	List
M650-504	Single Funnel with Filter & Cap	500/cs	\$651.78
M650-505	Individually wrapped Single Funnel with White Filter & Cap	500/cs	\$888.40
M650-503	Single Funnel with Tan Filter & Cap	500/cs	\$651.78
M650-502	Single Funnel only	500/cs	\$316.73

All Plastic CytoSep™ Cytology Funnels

For Shandon Cytospin® 4 Cyto centrifuge

These are so easy to use and improve turn-around time while giving more diagnostic information. Being totally disposable, they eliminate time-consuming decontamination and cleaning. They are safe to use and reduce the risk of exposure to pathogenic samples. They also decrease the possibility of cross-contamination.

This series of Simport® Single CytoSep™ Cytology Funnels is single-use. The disposable sample chambers do not need metal clips and are designed to meet any processing requirement. They are capable of producing high quality thin-layer slide preparations while improving laboratory efficiency.

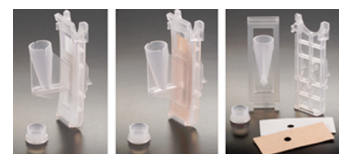
The disposable Sample Chambers with White Filter Cards are used for sample volumes up to 0.5mL.

The ones with the Brown Filter Cards are for sample volumes up to 0.4mL. The cell deposition area is 6mm in diameter (28mm squared). Filter cards are pre-attached. Excellent for scanty specimens such as CSF. All components also available separately.

This CytoSep™ Cytology Funnel allows two sample deposition areas on a single slide.

The disposable sample chambers do not need metal clips. Inserted filter card.

This sample chamber is also disposable.



Part No.	Description	Qty	List
M650-512	Single Funnel with White Filter & Cap	480/cs	\$918.23
M650-511	Single Funnel with Brown Filter & Cap	480/cs	\$918.23
M650-510	Single Funnel only	500/cs	\$548.80
M650-516	Base only	500/cs	\$242.73

Need a centrifuge? See pages 76 to 78

For accessories see pages 77-78

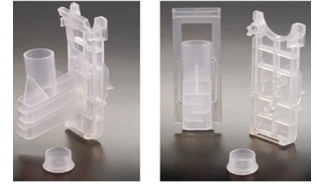
MEGA CytoSep™ Cytology Funnel

For Shandon Cytospin® 4 Cytocentrifuge

The Simport® ALL PLASTIC CytoSep™ MEGA Funnel provides an easy, efficient and cost effective method of producing high quality thin-layer slide preparations.

It eliminates the need for stainless steel slide clips, offering laboratory workflow improvements. It is dedicated for convenient preparation of larger volume samples.

This larger funnel is quick and easy to remove. The large rectangular cell deposition area of 22 x 14.75mm (325mm square) provides for up to 12 times the sample volume (6mL) of the single CytoSep™ Cytology Funnel. It produces more cost-effective thin layer preparations when compared to other thin layer methods. Strategically placed baffles inhibit cell settling which results in uniform cell deposition and excellent quality slide preparations. Simport® ALL PLASTIC CytoSep™ Cytology MEGA Funnel and Cap minimize user exposure to pathogens while reducing the risk of specimen cross-contamination. Can prepare both air-dried and fixed preparations.



Part No.	Description	Qty	List
M650-515	MEGA Funnel & Cap	480/cs	\$1231.85

CytoSep™ Cytology Funnel

For Sakura Cyto-Tek® Cytocentrifuge

All components are available separately. The Simport® CytoSep™ Cytology Funnel offers the 1mL fluid chamber, the base holder, the chamber cap and the filter paper.



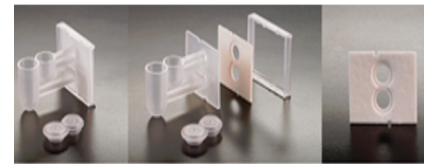
Part No.	Description	Qty	List
M650-498	Fluid Chamber only, 1mL	200/cs	\$243.30
M650-499	Base Holder only	200/cs	\$343.30
M650-500	Cap only	200/cs	\$57.40
M650-501	White Filter Card only	200/cs	\$62.53

Dual CytoSep™ Cytology Funnels

For ELITech Cytopro® Cytocentrifuge

With two chambers, cell deposit areas are close together and easy to find, helping to speed sample analysis. Two deposit areas on one slide enhance all of the advantages of the popular single chambers. Reduced time spent loading and unloading slides.

- Two cell deposit areas on the same slide means true cost reduction.
- Two deposit areas on one slide enhance productivity for those under regulatory workload limitations.
- Reduced time spent loading and unloading slides between the rotor, stainer and microscope.
- Cell deposit areas are close together and easy to find, helping to speed sample analysis.
- Cytopro's 7mm diameter spot provides a 37% larger area to collect cells.



Part No.	Description	Qty	List
M650-529	Double Sample Chamber With White Filter Paper & Cap	48/cs	\$178.55
M650-531	White Filter Paper for Double Funnel	100/cs	\$46.78

CytoSep™ Funnel Chambers

For Hettich Cyto-System

The Simport® CytoSep™ Funnel Chambers for the Hettich Cyto-System optimize lab throughput with multiple funnel options in 2, 3 or 4 funnels per slide. These funnels are perfect for every application such as CSF, Viral infections, bronchial secretions and come in four sizes from 1mL to 8mL. The 1mL chamber is for small-volume samples of low cell contents. Both 2 and 4mL chambers are suggested for cell-rich samples, e.g. pleura, ascites and bronchial washings while the 8mL chamber is perfect for large-volume samples such as urine.



Part No.	Description	Qty	List
M650-522	One-Funnel Chamber, 1mL	50/cs	\$82.15
M650-523	One-Funnel Chamber, 2mL	50/cs	\$82.15
M650-524	One-Funnel Chamber, 4mL	50/cs	\$82.15
M650-525	One-Funnel Chamber, 8mL	50/cs	\$82.15
M650-526	Filter for 1, 2 and 4mL Chambers	200/cs	\$77.25
M650-527	Filter for the 8mL Chamber	200/cs	\$133.40



Micro Array

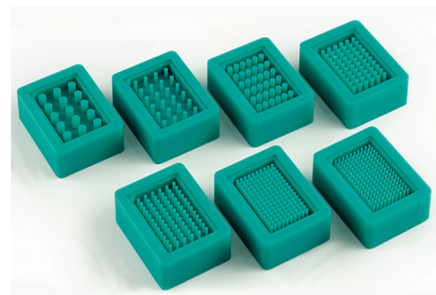
T-Sue™ Microarray Molds

Molds made of silicone

Tissue Microarray (TMA) is a technique enabling tissues from many donor blocks to be arrayed on a single slide. The array mold is specifically designed to be simple, easy to use and inexpensive. Tissues can be analyzed in the same conditions enhancing the efficiency of the research. The T-Sue™ Microarray molds allow you to perform TMAs faster while giving excellent results. By using array molds, you can process up to 170 specimens onto one single slide in very little time. 7 patterns available to fit your protocol.

- Can be reused hundreds of times without losing its flexibility
- Withstands temperatures between -100°C to +250°C
- View many different samples on the same slide

Each kit includes one T-Sue™ array mold and four punch needles with stylet.



Part No.	Array Mold Cores	Color	Core Ø (mm)	Qty	List
M650-021	15	Blue-Green	4	1/cs	\$775.00
M650-027	24	Red	2	1/cs	\$775.00
M650-029	36	Pink	3	1/cs	\$775.00
M650-031	60	Red	2	1/cs	\$775.00
M650-033	72	Yellow	1.5	1/cs	\$775.00
M650-022	150	Yellow	1.5	1/cs	\$775.00
M650-025	170	Magenta	1	1/cs	\$775.00

T-Sue™ Punch Needles

T-Sue™ punch needles are used for filling recipient tissue microarray paraffin blocks.

- A single punch can be used to fill an entire block
- 5 sizes available, clearly indicated on the handle
- Color coded plunger
- Internal stylet operating like a retractable pen
- Effortless ejection of core specimens
- Punches are packed in safe, tamper-evident zip-lock resealable bags

NOTE: The T-Sue™ Punch Needles are not intended for use directly on patients. For lab/research purposes only.



Part No.	Punch Needles Ø (mm)	Color Code	Qty	List
M650-035	1	Magenta	4/pk	\$72.00
M650-036	1.5	Yellow	4/pk	\$72.00
M650-037	2	Red	4/pk	\$72.00
M650-038	3	Pink	4/pk	\$72.00
M650-039	4	Blue-Green	4/pk	\$72.00

Precast T-Sue Paraffin blocks are also available

The precast T-Sue™ Microarray paraffin blocks allow you to prepare tissue arrays without needing any specialized equipment. You can construct a tissue array block in minutes, simply by punching the donor tissue cores and inserting them into the pre-made paraffin recipient block.

- No specific technical training or experience needed
 - Quick and inexpensive
- Ready to accept cores from donor block
 - Consistent core diameter
- Cassette is permanently bonded to block

Each kit includes 6 Precast T-Sue™ Paraffin blocks and two punch needles with stylet.



Sample Containers - Prefilled

*Please note that due to air shipment restrictions, prefilled products can only shipped by ground or ocean freight, no air shipments of these products will be permitted by Simport Scientific.

HistoTainer™ I Tamper Evident Prefilled Specimen Containers

50% Filled with 10% Neutral Buffered Formalin

Container made of polypropylene / Closure made of polyethylene

Especially designed for collection, transport and storage of histology specimens, Simport® offers shatter resistant polypropylene containers, eliminating most problems of leakage and evaporation. The magenta lids are ribbed for easy opening when hands are wet or gloved while the jars are stackable for easy, safe storage and translucent to allow specimens to be viewed without opening. The closures are manufactured from virgin polyethylene with a unique integrated leak-resistant seal. Container's vertical walls offer excellent rigidity.

The uniqueness of the HistoTainer™ I is that it incorporates an innovative tamper evident screw cap ensuring your peace of mind during transport or storage situations where someone might have manipulated the specimen without your prior knowledge. Can also be used without using the tamper evident locking mechanism. For color coding purposes, use a Capinsert™ on top of closure. Ten different colors are available.

Both containers and caps are manufactured without the use of plasticisers or mold release agents. All material used in manufacture are free from latex. All containers are 95 kPa compliant. Available in many sizes from 20 to 120mL. Packaging in trays of 24, cases of 96. The Simport® HistoTainer™ I is half filled with 10% Neutral Buffered Formalin as a fixative. 10% Neutral Buffered Formalin penetrates quickly, but fixes slowly. The Simport® Formalin is enhanced by a buffering capacity optimizing histological results by light microscopy and immunohistochemistry.



Part No.	Volume	Qty	List
M650-489	20mL	.96/cs	\$32.20
M650-490	40mL	.96/cs	\$42.50
M650-491	60mL	.96/cs	\$45.10
M650-492	90mL	.96/cs	\$47.68
M650-488	120mL	.96/cs	\$50.25

CoreDish® Multiple Biopsy Containers

50% Prefilled with 10% Formalin

Made of polystyrene

Few recommendations concerning how the biopsies should be handled have been published. Performing a large number of biopsies means an increase in the number of containers handled and consequently a technical overload of the transmission network, which occurs without any financial counterpart. A new approach had to be developed in order to increase productivity.

Simport® is proud to offer a multi-compartment container in the shape of a dish and half prefilled with 10% Neutral Buffered Formalin, for holding and transporting biopsies. It is supplied with a leakproof closure with o-ring ensuring total protection of contents.

The Simport® CoreDish® measures only 15 x 95mm in diameter. Each compartment is clearly identified to allow proper placement and visualization of the biopsy being inserted. Thanks to the CoreDish® it is no longer necessary to use a multitude of individual containers, thereby reducing risks of confusion. The Simport® CoreDish® offers many configurations in order to hold different biopsies of the breast, prostate, upper GI tract and lower GI tract. A label allows essential information to be written such as patient I.D., doctor, date and time.



The CoreDish® is also available without formalin.

CoreDish® Breast Biopsy Container with 10% Formalin

Made of polystyrene

Simport® is proud to offer a multi-compartment container (out of five compartments, four are labelled: Left Upper Quadrant, Right Upper Quadrant, Left Lower Quadrant, Right Lower Quadrant) in the shape of a dish and half prefilled with 10% Neutral Buffered Formalin, for holding and transporting biopsies. It conforms to OSHA directives. Each compartment is clearly identified to allow proper placement and visualization of the breast biopsy being inserted. A writing area for patient information is provided. Leakproof seal, thanks to o-ring lid, allows for safe and easy transport of the specimens from collection to analysis.



Part No.	Compartments	Prefilled	Qty	List
M650-536	5	YES	10/cs	\$76.68
M650-544	5	NO	10/cs	\$63.90



CoreDish® Prostate Biopsy Container with 10% Formalin

Made of polystyrene

For prostate biopsies. Twelve compartments. Leakproof seal thanks to o-ring lid. An area for patient information is provided. Twelve labeled compartments: L Base, R Base, L Lateral Base, R Lateral Base, L Lateral Medial, L Lateral, R Medial, R Lateral Medial,

L Lateral Apex, L Apex, R Apex, R Lateral Apex. Leakproof seal, thanks to o-ring lid, allows for safe and easy transport of the specimens from collection to analysis.



Part No.	Compartments	Prefilled	Qty	List
M650-534	12	YES	10/cs	\$76.68
M650-542	12	NO	10/cs	\$63.90

CoreDish® Lower GI Track Biopsy Container with 10% Formalin

Lower GI Track Biopsy Container with 10% Formalin

Made of polystyrene

For lower GI track biopsies. Twelve compartments. Leakproof seal thanks to o-ring lid. An area for patient information is provided. Ten labeled compartments: Proximal Flexure Colon, Hepatic Flexure Colon, Distal Transverse Colon, Ascending Colon, Splenic flexure Colon, Cecum, Decending Colon, Terminal Ileum, Rectum, Sigmoid Colon. Leakproof seal, thanks to o-ring lid, allows for safe and easy transport of the specimens from collection to analysis.



Part No.	Compartments	Prefilled	Qty	List
M650-533	12	YES	10/cs	\$76.68
M650-541	12	NO	10/cs	\$63.90

CoreDish® 8-Compartment Biopsy Container with 10% Formalin

Made of polystyrene.

Simport® is proud to offer a multi-compartment container for up to 8 biopsies. The screw on lid incorporates an o-ring in order to make it leakproof and protect its contents. The CoreDish® conforms to OSHA directives. An area for patient information is provided on the label. Compartments are numbered from 1 to 8.



Part No.	Compartments	Prefilled	Qty	List
M650-537	8	YES	10/cs	\$76.68
M650-545	8	NO	10/cs	\$63.90

Non-Tamper Evident Prefilled Specimen Containers

50% Filled with a Choice of Fixatives

Container made of polypropylene / Closure made of polyethylene

Non-Tamper Evident Prefilled Specimen Containers, 50% Filled with a Choice of Fixatives

Especially designed for collection, transport and storage of histology specimens, Simport® offers shatter resistant polypropylene containers, eliminating most problems of leakage and evaporation. Containers are manufactured from virgin, translucent polypropylene. The white lids are ribbed for easy opening when hands are wet or gloved while the jars are stackable for easy, safe storage. Jars are translucent and specimens can be viewed without having to open the lid. Closures are manufactured from virgin polyethylene with a unique integrated leak-resistant seal. Container's vertical walls offer excellent rigidity. For color coding purposes, use a Capinsert™ on top of closure. Ten different colors are available.

Both containers and caps are manufactured without the use of plasticisers or mold release agents. All materials used in manufacturing are free from latex. Containers are 95 kPa compliant. Available in many sizes from 20 to 120mL. Packaging is offered in trays of 24, cases of 96. The HistoTainer™ II is half filled with a choice of fixatives. 10% Neutral Buffered Formalin penetrates quickly, but fixes slowly. The Formalin is enhanced by a buffering capacity optimizing histological results by light microscopy and immunohistochemistry. Bouin, Hollande and Zinc Formalin fixatives are also available.



Part No.	Volume	Fixative	Qty	List
M650-494	20mL	Formalin	96/cs	\$32.20
M650-495	40mL	Formalin	96/cs	\$42.50
M650-496	60mL	Formalin	96/cs	\$45.10
M650-497	90mL	Formalin	96/cs	\$47.68
M650-493	120mL	Formalin	96/cs	\$50.25

CoreDish® Prostate Biopsy Container with 10% Formalin

Made of polystyrene.

For prostate biopsies. Eight compartments. Leakproof seal thanks to o-ring lid. An area for patient information is provided. Six labeled compartments: Base, Lateral Base, Medial, Lateral Medial, Apex, Lateral Apex. Leakproof seal, thanks to o-ring lid, allows for safe and easy transport of the specimens from collection to analysis.

Part No.	Compartments	Prefilled	Qty	List
M650-538	8	YES	10/cs	\$76.68
M650-546	8	NO	10/cs	\$63.90



CoreDish® Upper GI Track Biopsy Container with 10% Formalin

Made of polystyrene.

For upper GI track biopsies. Eight compartments. Leakproof seal thanks to o-ring lid. An area for patient information is provided. Seven labeled compartments: Gastric Card, Gastric Body, GE Junction, Gastric ATR, Distal Esophagus, Pylorus, Duodenum. Leakproof seal, thanks to o-ring lid, allows for safe and easy transport of the specimens from collection to analysis.

Part No.	Compartments	Prefilled	Qty	List
M650-539	8	YES	10/cs	\$76.68
M650-547	8	NO	10/cs	\$63.90



CoreDish® 5-Compartment Biopsy Container with 10% Formalin

Made of polystyrene.

Performing a large number of biopsies means an increase in the number of containers handled and consequently a technical overload of the transmission network, which occurs without any financial counterpart. A new approach had to be developed in order to increase productivity. Simport® is proud to offer a five-compartment container in the shape of a dish and half prefilled with 10% Neutral Buffered Formalin, for holding and transporting biopsies. It is supplied with a leakproof screw closure with o-ring ensuring total protection of contents. A writing area for patient information is provided. Compartments are numbered from 1 to 5.

Part No.	Compartments	Prefilled	Qty	List
M650-535	5	YES	10/cs	\$76.68
M650-543	5	NO	10/cs	\$63.90



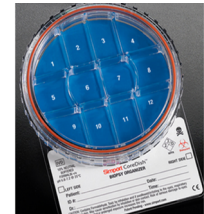
CoreDish® 12-Compartment Biopsy Container with 10% Formalin

Made of polystyrene.

This model will contain up to twelve biopsies. The screw on lid incorporates an o-ring in order to make it leakproof and protect its contents.

The CoreDish® conforms to OSHA directives. Compartments are numbered from 1 to 12.

Part No.	Compartments	Prefilled	Qty	List
M650-532	12	YES	10/cs	\$76.68
M650-540	12	NO	10/cs	\$63.90

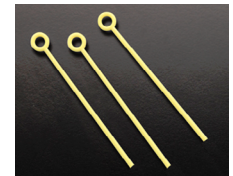


CorePicker™

Made of polystyrene.

A practical tool and a great help to pick up and handle biopsies out of the CoreDish®. Packed in tamperproof resealable bags.

Part No.	Length	Qty	List
M650-548	53mm (2 1/8")	125/cs	\$12.65



Inoculate with ease.
Try these large or small turntables!



Shipping Box for CoreDish®

Made of cardboard

This sturdy and easy-to-assemble shipping box is most convenient for transporting or mailing the Simport® CoreDish®.



Part No.	Description	Qty	List
M650-549	Cardboard Box	10/pk	\$11.00

Non Sterile Disposable Specimen Container

Polypropylene Container - Polyethylene Screw Cap

Graduated. Heavy-duty thick wall construction of both container and lid ensures a positive leakproof seal time after time. The drip ring on the container reduces the chances of contamination.

Wide base design for stable reliable use. Molded-in graduations up to 128mL / 4oz. Supplied non sterile and packaged in bags of 100 stacked by 10's. Yellow caps packed separately in bags of 100.



Part No.	Packaging	Qty	List
C330-047	100/Bag	500/cs	\$208.58

SecurTainer™ I Tamper Evident Specimen Containers

Container made of polypropylene

Closure made of polyethylene

Especially designed for collection, transport and storage of specimens, Simport® offers shatter resistant polypropylene containers, eliminating most problems of leakage and evaporation. Containers are uniquely stackable, shatter resistant and are manufactured from virgin, polypropylene. The magenta lids are ribbed for easy opening when hands are wet or gloved while the jars are stackable for easy, safe storage and almost transparent to allow specimens to be viewed without opening. These straight sided containers are manufactured from virgin polypropylene with a unique integrated leak-resistant seal.

The uniqueness of the SecurTainer™ I is that it incorporates a unique tamper evident screw cap ensuring your peace of mind during transport or storage situations where someone might have manipulated the specimen without your prior knowledge. Can also be used without using the tamper evident locking mechanism.

Both containers and caps are manufactured without the use of plasticisers or mold release agents. Material used in manufacturing is free from latex. All containers are 95kpa compliant. Available in many sizes from 20 to 120mL. Non sterile. Containers and caps packaged separately in bags of 100. Functional temperature range: -90°C to +100°C.



Part No.	Volume	Qty	List
C330-054	20mL	500/cs	\$123.25
C330-055	40mL	500/cs	\$151.50
C330-056	60mL	500/cs	\$158.65
C330-057	90mL	400/cs	\$128.80
C330-052	120mL	300/cs	\$122.45

SecurTainer™ II Tamper Evident Specimen Containers

Container made of polypropylene

Closure made of polyethylene

This model uses a different tamper evident concept when compared to the above series. No locking tab is necessary when the tamper evident feature is used. Simply screw the cap on the container and the tamper evident sealing ring is automatically locked in place. When unscrewed, the ring is detached from the cap, showing clearly that the container was opened.

Also designed for collection, transport and storage of specimens, the polypropylene containers are safe to use even in adverse conditions. Containers are uniquely stackable, shatter resistant and are manufactured from virgin, polypropylene. These straight sided containers are available in many sizes from 20 to 120mL. Non sterile. Containers and caps packaged separately in bags of 100.



Part No.	Volume	Qty	List
C330-059	20mL	500/cs	\$123.25
C330-060	40mL	500/cs	\$151.50
C330-061	60mL	500/cs	\$158.65
C330-062	90mL	400/cs	\$128.80
C330-058	120mL	300/cs	\$122.45

SecurTainer™ III Specimen Containers

Container made of polypropylene.

Closure made of polyethylene.

Chemically resistant and shatterproof, The SecurTainer™ III Specimen Containers are supplied with a leakproof screw cap, particularly important when transporting hazardous material. Ideal for transport and storage of urine, sputum and most liquids or particulate samples.

Containers are uniquely stackable, shatter resistant and are manufactured from virgin, high-clarity polypropylene.

Available in many sizes from 20 to 120mL. Containers and caps packaged separately in bags of 100. Non sterile.

Functional temperature range: -90°C to +100°C.



Part No.	Volume	Qty	List
C330-064	20mL	500/cs	\$123.25
C330-065	40mL	500/cs	\$151.50
C330-066	60mL	500/cs	\$158.65
C330-067	90mL	400/cs	\$128.80
C330-063	120mL	300/cs	\$122.45

Storage

SlideFile™ Jr. Storage System

Base made of high impact polystyrene / Cover made of polystyrene.

The Junior model can hold up to 200 slides per unit in just 860cm³ (53cu.in.) and is stackable for space efficient storage. Each SlideFile™ Jr. includes a slide box and a removable tray. A tinted hinged cover makes the contents of the box easy to see at a glance. The base is available in five different colors to help slide classification and to minimize the possibility of sample mix-up.

The key to the SlideFile™ Jr. is a removable tray inside the storage box having fifty individual numbered slots. All slides are stored upright for easier insertion and removal. Simply tilt them forward and backward with one finger to easily and rapidly pick up the slide you need. A unique feature with this system is to be able to read bar codes without having to remove the slides from the box.

For space saving purposes, you can double the amount of slides simply by storing two slides per slot. And for maximum storage space, simply remove the tray and line up 200 slides in 3 rows for long term storage. Will resist temperatures between -80°C and +80°C.

Not autoclavable.

Dimensions: 82 x 140 x 86mm H (3 1/4 x 5 1/2 x 3 3/8" H)



Part No.	Color	Qty	List
M650-437	Blue	10/cs	\$103.48
M650-438	Green	10/cs	\$103.48
M650-439	Pink	10/cs	\$103.48
M650-440	White	10/cs	\$103.48
M650-441	Yellow	10/cs	\$103.48

SlideFolder™

For Microscope Slide Storage.

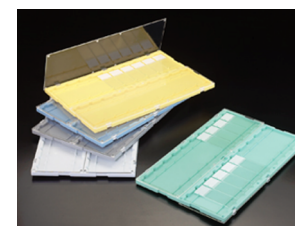
Base made of high impact polystyrene / Hinged doors made of polystyrene.

The SlideFolder™ will hold up to twenty standard microscope slides 75 x 25mm (3 x 1") and is made of two parts: a base holding the slides horizontally offering numbered spaces for easy identification and transparent doors which can either cover the slides or be swung behind the SlideFolder™ for space saving purposes.

The base is available in 5 different colors, allowing color-coding classification of the slides. Each slide location is identified with a number from 1 to 20. Removal of slides is made easy simply by pressing on one end, which will automatically lift the other end.

The two transparent hinged covers offer a full view of each slide without having to remove it from its position in the SlideFolder™ and allows easy reading of ID labels with or without an optical bar code reader. All units are stackable and take minimum space on laboratory tables or shelves. Will resist temperatures between -80°C and +80°C. Not autoclavable.

Dimensions: 192 x 295 x 11mm H (7 9/16 x 11 11/16 x 7/16" H)



Part No.	Color	Qty	List
M650-453	Blue	10/cs	\$124.00
M650-454	Green	10/cs	\$124.00
M650-455	Gray	10/cs	\$124.00
M650-456	White	10/cs	\$124.00
M650-457	Yellow	10/cs	\$124.00
M650-452	Assorted (two of each color)	10/cs	\$124.00
M650-458	Opaque doors and white base	10/cs	\$124.00



PETRI / CULTURE DISHES

Borosilicate Petri Dishes

Shallow glass dishes used for culturing bacteria and other general laboratory uses. Designed to meet Federal Specification NNN-D-1478.

- KIMAX® dishes remain clear after repeated use in wet or dry sterilization cycles
- Reinforced beaded edges resist mechanical breakage and help in centering the bottom inside the cover
- Covers have a fused-on bright red ceramic enamel marking spot and inscription, including "Cover;" Bottoms have a white ceramic enamel inscription, including "Bottom"
- Combination of different colors and wording permits quick and easy identification of the parts when sorting, selecting and assembling pairs
- Bottom has a vertical arrow on the side to precisely locate serial dilution starting points
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part No.	Description (H x D)	Qty/pk	List/pk	Qty/cs	List/cs
G535-546	10 x 100mm	12/pk	\$168.62	72/cs	\$632.30
G535-549	20 x 150mm	12/pk	\$394.59	24/cs	\$532.23
G538-331	15 x 100mm	n/a	n/a	36/cs	\$349.95
G538-332	20 x 100mm	n/a	n/a	34/cs	\$317.61

Covers

Part No.	Description (H x D)	Qty	List
G535-551	100 x 10mm	12/cs	\$65.70
G535-554	150 x 20mm	12/cs	\$184.95

Bottoms

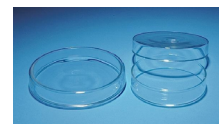
Part No.	Description (H x D)	Qty	List
G535-556	100 x 10mm	12/cs	\$68.79

Petri Dishes, Borosilicate Glass

Made from high quality borosilicate glass, these autoclavable, flat, clear petri dishes can withstand repeated sterilization and can be used many times. Each dish includes a lid.

Note: lids do not seal air-tight.

Part No	Description	Qty	List
B725-260	60 x 65 x 15mm	10/pk	\$102.23
B725-261	75 x 82 x 15mm	10/pk	\$109.80
B725-262	100 x 107 x 20mm	10/pk	\$115.50



Petri Dishes, Polystyrene (PS)

Disposable polystyrene petri dishes offer optical clarity and strength at economical prices. 65mm dish includes a molded-in grid on the lid for easy colony counting. Sterilized.

Part No.	Dimensions (Diameter x Height)	Qty	List
D350-008	65 x 15mm	10/pk	\$13.10
D350-007	90 x 15mm	10/pk	\$17.40
D350-005	150 x 15mm	10/pk	\$37.73
D350-006	90 x 15mm, 2 compartment	10/pk	\$18.30



Polystyrene Petri Dish

These 50 x 9mm sterile petri dishes with absorbent pads are ideal for culturing micro-organisms on either agar or broth based media. Designed to accommodate 47mm diameter membrane filters. These dishes are stackable and have squared off edges on both the top and bottom which provide convenient grips for one handed opening. The snug fitting top ensures that neither the absorbent pad nor the agar media will dry out during incubation. A frosted area on top of the lid permits labeling.

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
D400-006	50 x 11mm Sterile w/o pads	100/pk	\$80.30	500/cs	\$249.55
D400-007	50 x 11mm Sterile w/pads	100/pk	\$93.60	500/cs	\$290.88



Polystyrene Petri Dish

Unsurpassed in optical clarity – ideal for microphotography. Engineered for optimum flatness – provides uniform agar thickness.

Part No.	Size	Style	Sterile	Qty	List
D410-113	100 x 15mm	Full Stackable	Yes	500/cs	\$172.25
D410-106	100 x 15mm	Quad Plate Slipable	Yes	500/cs	\$191.58

Polystyrene Petri Dish

Suitable for culturing microorganisms on 47mm diameter membrane filters. Snug fit prevents drying during incubation. Squared edges and a raised ridge for ease of handling and secure stacking. Sterilized by gamma irradiation (50 x 11) or by EtO (larger sizes). 50 x 11mm polystyrene dishes fit all commercially available aluminum block incubators.

Size: 50 x 11mm
 Pad: No
 Sterile: Yes



Part No.	Description	Qty	List
D405-049	50 x 11mm Sterile	100/pk	\$34.62

Compartment Petri Dishes

Available in 2, 3 or 4 compartments. Sterile. Polystyrene.

Part No.	Compartments	Size	Qty	List
L140-210	2	100 x 15mm	500/cs	\$132.00
L140-211	3	100 x 15mm	500/cs	\$136.00
L140-212	4	100 x 15mm	500/cs	\$140.00



Sterile Petri Dishes

Economical, optically clear dishes are precision-molded from biomedical grade polystyrene so cultures are clearly visible without distortion. Dishes are packaged in heavy-wall polyethylene sleeves. Not for tissue culture application.

D400-008 Commonly referred to as a 100 x 20mm dish

For unimpaird observation of specimen growth with raised straight ridge around top for stable stacking

D400-009 Commonly referred to as a 100 x 20mm dish

This dish has three venting ribs into the underside of the lid to prevent condensation build-up

D400-010 Commonly referred to as a 100 x 25mm dish

Accommodates deeper fills for longer culture periods. Used for fungal cultures, plant propagation. This dish has three venting ribs into the underside of the lid to prevent condensation build-up.

D400-000 Commonly referred to as a 60 x 15mm dish

For use whenever a small quantity of culture is desirable. For unimpaird observation of specimen growth with raised straight ridge around top for stable stacking. This dish has three venting ribs on the edge of the dish to prevent condensation build-up.

20/pk - 500/cs

D400-006 These 50 x 9mm sterile petri dishes with absorbent pads are ideal for culturing micro-organisms on either agar or broth based media. Designed to accommodate 47mm diameter membrane filters. These dishes are stackable and have squared off edges on both the top and bottom which provide convenient grips for one handed opening. The snug fitting top ensures that neither the absorbent pad nor the agar media will dry out during incubation. A frosted area on top of lid permits labeling.

D400-007 These 50 x 9mm sterile petri dishes with absorbent pads are ideal for culturing micro-organisms on either agar or broth based media. Designed to accommodate 47mm diameter membrane filters. These dishes are stackable and have squared off edges on both the top and bottom which provide convenient grips for one handed opening. The snug fitting top ensures that neither the absorbent pad nor the agar media will dry out during incubation. A frosted area on top of lid permits labeling.



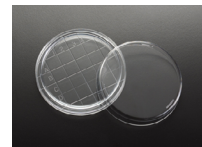
Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
D400-008	90 x 20mm; 100mL	n/a	n/a	500/cs	\$264.07
D400-009	90 x 20mm; 100mL	n/a	n/a	500/cs	\$305.90
D400-010	90 x 25mm; 125mL	n/a	n/a	500/cs	\$295.55
D400-000	60 x 15mm; 28mL	n/a	n/a	500/cs	\$163.50
D400-006	50 x 9mm; w/o Pads	n/a	n/a	500/cs	\$249.55
D400-007	50 x 9mm; w/Pads	100/pk	\$91.61	500/cs	\$290.88



Contact Plate

This dish is free from optical distortion and is sterile. The grid is 10 x 10mm with numbered and lettered squares to facilitate counting and to locate colonies.

20/pk 500/cs

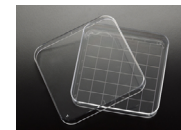


Part No.	Description	Qty	List
D400-004	60 x 15mm; 20mL	500/cs	\$242.53

Square Petri Dish w/Grid

Free from optical distortion and sterile. These dishes are ideal for phage typing, susceptibility testing, plate counts and probe assays. Each 13mm grid is marked numerically in one direction and alphabetically in the other. This dish has four venting ribs into the underside of the lid to prevent condensation build-up. 100 x 15mm.

10/pk 500/cs



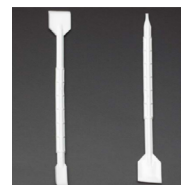
Part No.	Description	Qty	List
D400-003	90 x 15mm; 110mL	500/cs	\$339.35

Petri Dish Accessories

Cell Lifter Double End Flat Blade & Narrow Blade

Double Ended Cell Lifters have a 19mm beveled edge blade on one end and a J-Hook or Narrow Blade on the other. The J-Hook version is curved on one end, to vertically lift cells from 6, 12, 24 and 48 Well Plates. The Narrow Blade version is tapered on one end to fit into 96 Well Plates or Micro Centrifuge Tubes

Sterile: Yes
 Packaging: Individually Wrapped 100/cs
 Material: ABS/TPE



Part No.	Description	Qty	List
L140-061	Flat & Narrow Blades	100/cs	\$110.00
L140-062	Flat & J-Hook Blades	100/cs	\$110.00

Cell Spreaders

Domed headpiece promotes smooth spreading.

Delta™

Flexible rippled handle and domed spreading bar to help reduce agar tears

Gamma sterilized

Disposable

L-Shape

Lot-to-lot traceability, 10 wrap comes in a zip bag

Disposable

Stainless Steel

Reusable

Flame and autoclave sterilizable



Part No.	Description	Qty	List
M220-550	Delta; Sterile; Single Wrap	500/pk	\$110.32
M220-551	L-Shaped; Sterile; Single Wrap	500/pk	\$143.66
M220-552	L-Shaped; Sterile; 10 Wrap	500/pk	\$109.29
M220-553	Stainless Steel; Non Sterile	1/ea	\$15.26

Cell Scraper

Cell Scrapers have soft, pliable blades for improved contact with growth surface to gently remove cells and maximize recovery.

Non-pyrogenic and packaged sterile (gamma irradiated) in individual paper/plastic wrappers with 100 pieces per case.

Handle: 25cm

Scraper: 20mm



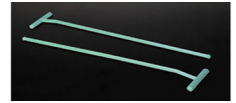
Part No.	Description (Handle x Scraper)	Qty	List
L140-063	25cm x 20mm, "Scraper" Blade, Sterile	100/cs	\$128.00
L140-064	25cm x 20mm, "Lifter" Blade, Sterile	100/cs	\$129.00
L140-065	30cm x 20mm, "Pivoting" Blade, Sterile	100/cs	\$155.00
L140-066	39cm x 30mm, "Scraper" Blade, Sterile	100/cs	\$140.00
L140-067	39cm x 30mm, "Lifter" Blade, Sterile	100/cs	\$142.00

Bacterial Cell Spreader

Made of high impact polystyrene

No flame sterilization needed. Designed for easy spreading of cells onto the surface of an agar plate.

Supplied sterile in individual packs. Total length of handle: 176mm, width of spreader: 36mm



Part No.	Description	Qty	List
M650-013	Sterile; Green	100/cs	\$94.85

L-Shaped Scrapers

L-Shaped Cell Spreader. For evenly spreading bacterial cultures. Polypropylene, sterile (gamma irradiated).



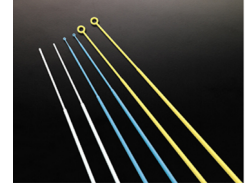
Part No.	Length	Pkg	Color	Qty	List
L140-192	145mm	Individually Wrapped	Green	100/cs	\$46.00
L140-193	145mm	10 per Wrap	Green	500/cs	\$90.00

Inoculating Loops & Needles

Loops and needles are smooth and flexible to facilitate uniform streaking without damaging the gel surface.

Needles are straight and suitable for removal of specimens of single colonies. Packed sterile in safe, tamperproof, zip-lock resealable bags. Disposable inoculating loops and needles do not require flaming and thus eliminate the risk of infection due to aerosol formation of pathogenic substances. Cross contamination due to improper sterilization is eliminated. They can be used under hoods without danger and are color-coded for ease of size identification.

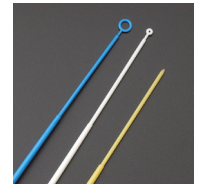
Certificate of conformity available upon request. Total length: 227mm



Part No.	Description	Color	Qty/pk	Qty/cs	List/cs
M650-004	Loop 1µL	Blue	25/pk	1000/cs	\$106.55
M650-006	Loop 1µL	Blue	10/pk	1000/cs	\$126.85
M650-005	Loop 1µL	Blue	1/pk	250/cs	\$145.58
M650-007	Loop 10µL	Yellow	25/pk	1000/cs	\$106.55
M650-009	Loop 10µL	Yellow	10/pk	1000/cs	\$126.85
M650-008	Loop 10µL	Yellow	1/pk	250/cs	\$145.58
M650-010	Needle	White	25/pk	1000/cs	\$106.55
M650-012	Needle	White	10/pk	1000/cs	\$126.85
M650-011	Needle	White	1/pk	250/cs	\$145.58

Inoculating Loops

Made from high quality polypropylene. Loops are available in 1µL to 10µL. Flexible for easy access to small volume tubes and dishes. Color coded for easy identification. Packaged sterile (gamma irradiated) in individual or bulk, easy to open, paper/plastic wrappers.

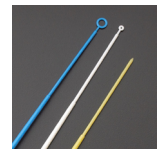


Part No.	Size	Length	Color	Qty	List
L140-187	1µL	218mm	White	2000/cs	\$136.00
L140-188	1µL	218mm	White	600/cs	\$79.20
L140-189	10µL	221mm	White	2000/cs	\$136.00
L140-190	10µL	221mm	Blue	600/cs	\$79.00

Inoculating Needles


Inoculating Needle. For inoculating, streaking cell culture plates and dishes. Polypropylene, sterile (gamma irradiated).

Bulk Pack 2/pk



Part No.	Length	Color	Qty	List
L140-191	221mm	Yellow	2000/cs	\$136.00

Why strain to see, when you can have this
Mini Magnifier assist you!
Check out page 306 for more information.



Inoculating Needles / Loops

Combination provides choice to spread or pick colonies and cultures. Transfer bacterial cultures without risk of contamination.

Use loop end to uniformly streak a gel surface, use needle end for removal of colonies.

Choose between flexible polypropylene or the more rigid ABS versions.

Disposable, sterile, 20 per zip bag with lot-to-lot traceability.

L x D: 200 x 4mm

Part No.	Description	Qty	List
M220-546	1µL Loop, Flexible PP	1000/pk	\$83.53
M220-547	1µL Loop, Rigid ABS	1000/pk	\$83.53
M220-548	10µL Loop, Flexible PP	1000/pk	\$83.53
M220-549	10µL Loop, Rigid ABS	1000/pk	\$83.53

SmartPicks® Inoculation Pick

SmartPicks® Inoculation Picks, Mini, Semi Point.

The 'smart' way to isolate individual colonies available in three lengths and two needle sizes to suit a wide range of application needs.

Naturally biodegradable, made from 100% U.S.A grown white birch wood.

Manufactured in an FDA-registered factory and comply with FDA standards for food contact.

Available in semi or needle point styles for delicate operations.

Autoclavable; Disposable

Part No.	Description	Qty	List
M220-031	Mini, Semi Point, 1.28", Fits 1.5mL tube (closed)	2000/pk	\$128.90
M220-032	Mini, needle Point, Fits 1.5mL tube (closed)	2000/pk	\$128.90
M220-033	Standard, Semi Point, 2.5" Single Tip	1500/pk	\$164.90
M220-034	Standard, Needle Point, 2.5" Single Tip	1500/pk	\$164.90
M220-036	Large, Needle Point, 6" Single Tip	500/pk	\$97.29
M220-035	Large, Semi Point, 6" Single Tip	500/pk	\$97.29

E-Count Colony Counter with Pen

Combines a multi-function electronic counter with a Sharpie® pen for marking to prevent missing or double-counting colonies.

- Light, ergonomic body is balanced for easy manipulation
- Select between an audible beep or an led flash to acknowledge count
- Store up to 32 separate counts and display the total of all counts
- Count up/down verification
- Quick and easy to change between different colored markers to check different colony counts in the same view
- Lock counter off to allow use of the marker without registering more counts

Package Includes:

- E-Count™ colony counter
- Black Sharpie® pen for highly visible marks on both plastic and glass
- Long-life button battery
- Hand tally adapter counts without marking
- Weighted stand for convenient bench top use

Part No.	Description	Qty	List
M220-605	E-Count Colony Counter with Pen	1/ea	\$428.50

Hand Tally Counter

Use for counting blood cells, bacterial colonies, drops of liquid or any repetitive event.

- Tallies up to 9999
- Features a quick-reset knob
- Lens for easy reading and finger ring for a secure grip
- Dia x Width 1.8 x 1.6" (4.6 x 4.1cm)

Part No.	Description	Qty	List
M220-545	Hand Tally Counter	1/ea	\$14.05



Mini-Light Box & Mini Magnifier

Perfect accessories for the eCount® or use as stand-alone items.

Mini-Light Box saves bench space and can be stored in a drawer.

- Viewing area (10 x 127mm) is perfect for quick screening of 96-well plates, petri dishes, electrophoresis gels, slides and transparencies
- Powered by four AA batteries (included). Measures 161 x 135 x 44mm

Mini-Magnifier enlarges objects for easier viewing

- Swiveling, molded lens. 1.75X magnification
- Lens measures 185 x 100mm; stand measures 207mm H



Part No.	Description	Qty	List
M220-609	Mini-Light Box	1/ea	\$184.50
M220-607	Mini Magnifier	1/ea	\$130.16

Contact Plate and Petri Dish Reader

This tool allows safe examination of the bottom of plates without risking spills on the face and eyes.

Ideal for examining cell monolayer, cell clones and for counting viral plaques or bacterial colonies.

Easy and safe reading of hemagglutination, hemagglutination inhibition, hemolysis and agglutination tests.

Clear deck for resting plates.

Large, adjustable mirror is perfect for viewing plate underside.

Mirror magnification is 3X actual plate size.

Made of polypropylene with a glass-clear acrylic deck for placement of plates and petri dishes.



Part No.	Description	Qty	List
M441-240	Contact Plate and Dish Reader	1/ea	\$299.70

Petri Dish Dispenser

- Sturdy acrylic holds up to 30 x 100mm dishes in two easy-access partitions.

- Bench top or wall mountable (screws provided).

- Measures 222 x 107 x 236mm



Part No.	Description	Qty	List
M220-340	Petri Dish Dispenser	1/ea	\$97.24

Poxygrid Contact Plate / Petri Dish Rack

Durable blue epoxy-coated steel wire racks hold 30 or 10 contact plates with lids (72mm maximum diameter) (RODAC®, Becton Dickinson™).

Useful for transport, incubation and storage of contact plates; convenient organization.

Steam autoclavable at 121°C (250°F).



Part No.	# of Plates	Columns	Dimensions	Qty	List
R100-313	10	1	3-1/4 x 3-1/4 x 5-1/2"	1/ea	\$41.33
R100-312	30	3	3-1/4 x 9-5/8 x 5-1/2"	1/ea	\$93.15

Petri Dish Incubation Tray

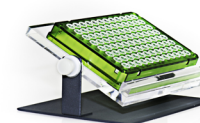
The Petri Dish Incubation Tray holds 100mm (4") Petri dishes securely on an incubator rack.

Excellent aid for keeping cell cultures organized.

28 holes in bottom allow air passage; 19mm (¾") in diameter.

1.6mm (1/16") thick, white epoxy-coated steel.

Steam autoclavable at 121°C (250°F) for 15-20 min.



Part No.	Description	Qty	List
R100-325	34.9 x 13.7 x 2.2cm (13-3/4 x 5-3/8 x 7/8")	1/ea	\$109.20

Ask us about Bel-Art's Hand-Held Colony Counter!



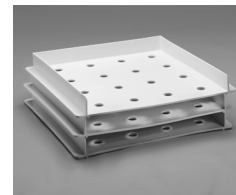
800.369.5524

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www.foxscientific.com

Petri Dish Incubation Tray Stackable

Increases overall capacity of your incubator by holding five 100mm diameter or fifteen 60mm diameter petri dishes. Each tray includes two large label areas for critical sample identification by marker or label
 Holes in tray bottom facilitate air flow
 Polypropylene plastic; can be disinfected with 70% ethanol or common laboratory disinfectants
 Not recommended above 100°C (212°F); autoclaving may warp
 (9-7/8 x 9-5/16 x 1-3/8")



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
R100-326	25.1 x 23.7 x 3.5cm	3/pk	\$92.93	12/cs	\$247.80

TUBES

Centrifuge Tubes

15mL Centrifuge Tubes

15mL Conical Centrifuge tubes are designed for the demanding and stressful conditions encountered in today's laboratories.

Screw Cap: HDPE
 Graduated: Yes - Printed
 Max Force (RCF): 6,400
 Min Temp: -40°C
 Max Temp: 120°C



Part No.	Capacity	Dimensions	Sterile	Material	Qty	List
T100-018	15mL	120 x 22mm	Yes	Co-Polymer	500/cs	\$253.70
T100-016	15mL	120 x 22mm	Yes	Polystyrene	500/cs	\$277.75
T100-026	15mL	120 x 22mm	No	Co-Polymer	500/cs	\$134.85

15mL Plug Cap Centrifuge Tubes

These 15mL conical centrifuge tubes, made from premium polystyrene, offer results of precision and accuracy. Plug caps are made from low-density polyethylene with leak proof seals.

Accurate molded in graduations for precise results.

Caps sold separately

Graduated: Yes - Molded
 Max Force (RCF): 1500
 Min. Temp: 20°C
 Max Temp: 70°C



Part No.	Description (L x D)	Qty	List
T100-121	126 x 20mm; Polystyrene	500/cs	\$103.95
T100-122	126 x 20mm; Polystyrene	1000/cs	\$170.65
T100-124	126 x 20mm; Polypropylene	500/cs	\$110.10
T100-125	126 x 20mm; Polypropylene	1000/cs	\$172.10

15mL Centrifuge Tube Plug Cap

Plug caps are made from low-density polyethylene with leak proof seals.

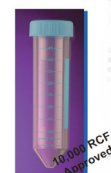
Part No.	Description	Qty	List
T100-135	Blue; LDPE	1000/cs	\$69.15



50mL Centrifuge Tubes

These conical centrifuge tubes are designed for the demanding and stressful conditions encountered in today's laboratories. These are rated at a 10,000 RCF and feature printed blue silk-screen graduations for better visibility with a large writing patch which allows for easy sample identification.

Dimensions: 117 x 34mm
 Sterile: No
 Material: Co-Polymer
 Top: Screw cap – HDPE Natural
 Max Force (RCF): 10,000
 Min Temp: -40°C
 Max Temp: 120°C



Part No.	Description	Qty	List
T100-037	Molded Graduations	500/cs	\$209.10
T100-043	Printed Graduations	500/cs	\$426.60

Microcentrifuge - Snap Cap

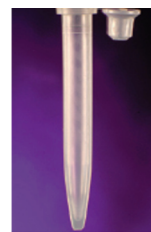
Snap Cap Microcentrifuge Tubes

Polypropylene is not recommended for use with Phenol Chloroform. Low temperature storage, multiple spin cycles or organic solvents can affect maximum force.

Run a test before using.

* Assorted colors are randomly mixed Natural, Blue, Green, Lavender, Orange, Pink and Yellow tubes in each bag.

T100	-085	-093	-102	-111	-126
Max. Force (RCF)	12,000	18,000	30,000	18,000	18,000
Brittleness Temp.	-100°C	0°C	0°C	0°C	0°C
Max. Temp.	80°C	135°C	135°C	135°C	135°C
Material	LDPE	PP	PP	PP	PP
Max. Volume	0.4mL	0.65mL	1.75mL	1.75mL	2.0mL



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
T100-085	Assorted Colors; 0.4mL	n/a	n/a	1000/cs	\$67.05
T100-093	Assorted Colors; 0.65mL	n/a	n/a	1000/cs	\$52.95
T100-102	Assorted Colors; 1.75mL	n/a	n/a	1000/cs	\$63.15
T100-111	Assorted Colors; 1.75mL	n/a	n/a	1000/cs	\$64.15
T100-126	Assorted Colors; 2.0mL	500/pk	\$28.60	1000/cs	\$57.20

ClickLok™ Snap Cap Microcentrifuge Tubes

These 0.6mL and 1.5mL graduated rugged tubes are made of laboratory grade polypropylene suitable to withstand the stress of high speed centrifugation up to 20,000g. The one-piece construction incorporates a snug fitting and reliable attached cap even with prolonged boiling. The bottom is reinforced for added protection against leakage. Maximum clarity for visual sample inspection. A frosted writing surface on closure and side of tube allows for easy and convenient sample identification. Highly polished interior ensures low liquid retention. Available in 4 colors (natural, blue, green & yellow). Packaged in tamperproof resealable safety-lock bags.

- Extra clarity for better visual inspection
- Ultra rugged walls made for high speed centrifugation
- Made of highest purity polypropylene
- Boil-proof design
- Unique ClickLok™ sealing mechanism



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
T240-178	0.6mL; Natural	n/a	n/a	5000/cs	\$206.40
T240-175*	0.6mL; Blue	n/a	n/a	5000/cs	\$206.40
T240-176*	0.6mL; Green	n/a	n/a	5000/cs	\$206.40
T240-179*	0.6mL; Yellow	n/a	n/a	5000/cs	\$206.40
T240-204	1.5mL; Natural	500/pk	\$18.13	5000/cs	\$181.25
T240-201	1.5mL; Blue	1000/pk	\$30.34	5000/cs	\$151.70
T240-202	1.5mL; Green	1000/pk	\$30.34	5000/cs	\$151.70
T240-205	1.5mL; Yellow	1000/pk	\$30.34	5000/cs	\$151.70
T240-200	1.5mL; Amber	n/a	n/a	5000/cs	\$181.25

* Available on request only. Minimum quantities apply. Please enquire for more details.

2mL Microcentrifuge Tube

These 2mL polypropylene microcentrifuge tubes offer a special design to produce a more secure closure. This will help to prevent tubes from opening during centrifugation, boiling, storing, freezing and shipping. They are graduated at 0.5, 1.0 and 1.5mL. They are autoclavable to 121°C. Pierceable lid. Etched surface on side of tube for sample identification. Large etched graduations make volumes easy to read. Improved polypropylene transparency for easy viewing of samples. Tubes can withstand centrifugation up to 15,000g.

500/pk 10pks/cs



Conical Bottom

Part No.	Description	Qty	List
T240-189	Natural	5000/cs	\$313.65
T240-186*	Blue	5000/cs	\$313.65
T240-187*	Green	5000/cs	\$313.65
T240-199*	Yellow	5000/cs	\$313.65
T240-183*	Amber	5000/cs	\$313.65

Self-Standing Conical Bottom

Part No.	Description	Qty	List
T240-184	Natural	5000/cs	\$313.65
T240-181*	Blue	5000/cs	\$313.65
T240-182*	Green	5000/cs	\$313.65
T240-185*	Yellow	5000/cs	\$313.65
T240-180*	Amber	5000/cs	\$313.65

EconoTube™

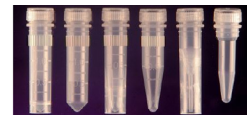
The least expensive polypropylene microcentrifuge tube for all applications including storage and reactions. The one-piece construction incorporates a snug fitting and reliable attached cap. Not to be used for boiling applications.

Part No.	Description	Qty	List
T240-173	Natural; 1.5mL	5000/cs	\$131.55



Microcentrifuge Tubes - Snap Cap

Internal Sealing Ring sandwiches the top of the tube to provide a positive seal to prevent liquid bypass. Continuous Threads require only a 1¼ turn to tighten. The O-ring provides exceptional chemical resistance while further enhancing the integrity of the seal. Polypropylene-copolymer caps and tubes are fully autoclavable (see autoclave guidelines under Reference). However, O-ringed caps are not autoclavable. Caps are compatible with Sarstedt and Porex.



Conical Bottom

Part No.	Description	Qty	List
T100-052	0.5mL Natural Tube w/Nat. O-Ring Cap Sterile	500/cs	\$169.25
T100-053	0.5mL Natural Tube	1000/cs	\$76.00
T100-056	1.5mL Natural Tube w/Nat. O-Ring Cap Sterile	500/cs	\$169.25
T100-057	1.5mL Natural Tube	1000/cs	\$75.20
T100-060	2.0mL Natural Tube w/Nat. O-Ring Cap Sterile	500/cs	\$169.50
T100-061	2.0mL Natural Tube	1000/cs	\$75.40

Skirted Bottom

Part No.	Description	Qty	List
T100-054	0.5mL Natural Tube w/Nat. O-Ring Cap Sterile	500/cs	\$169.55
T100-055	0.5mL Natural Tube	1000/cs	\$75.50
T100-058	1.5mL Natural Tube w/Nat. O-Ring Cap Sterile	500/cs	\$169.60
T100-059	1.5mL Natural Tube	1000/cs	\$74.85
T100-062	2.0mL Natural Tube w/Nat. O-Ring Cap Sterile	500/cs	\$164.35
T100-063	2.0mL Natural Tube	1000/cs	\$74.55

	T100-053	T100-055	T100-057	T100-059	T100-061	T100-063
Max. Force (RCF)	18,000	18,000	18,000	18,000	18,000	18,000
Brittleness Temp	-40°C	-40°C	-40°C	-40°C	-40°C	-40°C
Max. Temp.	121°C	121°C	121°C	121°C	121°C	121°C
Material	PP-CO	PP-CO	PP-CO	PP-CO	PP-CO	PP-CO
Max. Volume	0.65mL	0.65mL	1.75mL	1.75mL	2.0mL	2.0mL

SnapTwist™ Microwtube®

Tube made of polypropylene.

Cap made of polyethylene.

The tubes can be securely sealed by simply capping the closures on. Removal of caps requires an easy 1/4 turn (twist). The ease with which these caps can be manipulated eliminates the danger of spillage associated with other push-on/pull-off caps. The deep internal lip of the cap fits snugly against the interior wall of the tube preventing the contents from coming in contact with the threads, thus reducing the chances of sample contamination. The quality of the sealing system is such that it is not necessary to tighten the closure with pressure to achieve a leakproof seal. This series of tubes is not available with graduations. Caps cannot be autoclaved since they are made of high density polyethylene. Conical bottom tubes can be centrifuged up to 20,000g. Temperature range: -90°C to +100°C. Skirted tubes can be centrifuged up to 17,000g. Certified RNase-, DNase-, Pyrogen- and DNA-free.



Tubes

Part No.	Description	Volume	Qty	List
T240-415	Self-Standing	1.5mL	1000/cs	\$84.73
T240-416	Conical Bottom	1.5mL	1000/cs	\$84.73
T240-417	Self-Standing	1.8mL	1000/cs	\$84.73
T240-418	Conical Bottom	1.8mL	1000/cs	\$84.73

Caps w/Out Loop

Part No.	Description	Qty	List
T240-425	Natural	1000/cs	\$91.65
T240-419	Blue	1000/cs	\$91.65
T240-421	Green	1000/cs	\$91.65
T240-423	Lilac	1000/cs	\$91.65
T240-427	Red	1000/cs	\$91.65
T240-431	Yellow	1000/cs	\$91.65
T240-429	White	1000/cs	\$91.65

Caps w/ Loop

Part No.	Description	Qty	List
T240-426	Natural	1000/cs	\$96.23
T240-420	Blue	1000/cs	\$96.23
T240-422	Green	1000/cs	\$96.23
T240-424	Lilac	1000/cs	\$96.23
T240-428	Red	1000/cs	\$96.23
T240-432	Yellow	1000/cs	\$96.23
T240-430	White	1000/cs	\$96.23

Tubes - PCR

Amplitude™ PCR Reaction Tubes 0.2mL

Made of polypropylene.

Designed for oil-free operation, these tubes are made of transparent superior quality grade polypropylene for better viewing of the contents. Their ultrathin wall design will ensure rapid thermal transfer and a significant reduction in cycle and PCR reaction time.

Attached hinged caps are either dome or flat-topped and can be used with heated lids used by thermal cycler manufacturers. They provide positive sealing during thermal cycling and will prevent evaporation while being easily opened and closed with one hand. The cap has an integral shield preventing contamination with surface of lid. Frosted writing surface for sample identification.

Choice of colorless and four non-cytotoxic and non-metallic colors. Packaged in tamperproof resealable safety-lock bags.



With Integral Shield Preventing Contamination with Surface of Lid

Domed Cap

Part No.	Description	Qty	List
T240-124	Natural	1000/cs	\$56.20
T240-122	Blue	1000/cs	\$56.20
T240-123	Green	1000/cs	\$56.20
T240-125	Red	1000/cs	\$56.20
T240-131	Yellow	1000/cs	\$56.20

Flat Cap

Part No.	Description	Qty	List
T240-134	Natural	1000/cs	\$56.20
T240-132	Blue	1000/cs	\$56.20
T240-133	Green	1000/cs	\$56.20
T240-135	Red	1000/cs	\$56.20
T240-141	Yellow	1000/cs	\$56.20

Without a Contamination Shield

Domed Cap

Part No.	Description	Qty	List
T240-128	Natural	1000/cs	\$56.20
T240-126	Blue	1000/cs	\$56.20
T240-127	Green	1000/cs	\$56.20
T240-129	Red	1000/cs	\$56.20
T240-130	Yellow	1000/cs	\$56.20

Flat Cap

Part No.	Description	Qty	List
T240-138	Natural	1000/cs	\$56.20
T240-136	Blue	1000/cs	\$56.20
T240-137	Green	1000/cs	\$56.20
T240-139	Red	1000/cs	\$56.20
T240-140	Yellow	1000/cs	\$56.20

Without Cap

This thin wall 0.2mL tube is very useful when processing smaller volumes. It offers optimum contact with thermal cycler blocks. The ultrathin wall will ensure rapid thermal transfer and a significant reduction in cycle and PCR reaction time. Specially designed with a highly polished surface and a round bottom for maximum sample recovery. Sealing can be achieved by using either T240-103 or T240-108 Series Cap Strips. Choice of colorless and four non-cytotoxic and non-metallic colors. Packed in tamperproof resealable bags.



Part No.	Description	Qty	List
T240-119	Natural	1000/cs	\$49.20
T240-117	Blue	1000/cs	\$49.20
T240-118	Green	1000/cs	\$49.20
T240-120	Red	1000/cs	\$49.20
T240-121	Yellow	1000/cs	\$49.20

Amplitude™ PCR Reaction Tubes 0.5mL

Made of polypropylene.

Also designed for oil-free operation, the inside of these tubes has a polished surface, a conical shape and a round bottom for maximum sample recovery. They offer optimum contact with thermal cycler blocks. Their ultrathin wall design will ensure rapid thermal transfer and a significant reduction in cycle and PCR reaction time.

Attached hinged caps are either dome or flat-topped and provide positive sealing during thermal cycling stages. They will prevent evaporation while being easily opened and closed with one hand. Choice of colorless and four non-cytotoxic and non-metallic colors for visual coding of samples. Packed in tamperproof resealable bags. Autoclavable.

Domed cap provides a snap shut positive seal

Pierceable flat cap

Attached cap allows opening and closing with one hand

Etched writing surface for sample identification

Graduated in 0.1mL increments

Ultrathin wall

See-thru polypropylene

Round bottom makes tube easy to empty



Domed Cap

Part No.	Description	Qty	List
T240-144	Natural	1000/cs	\$55.55
T240-142	Blue	1000/cs	\$55.55
T240-143	Green	1000/cs	\$55.55
T240-145	Red	1000/cs	\$55.55
T240-146	Yellow	1000/cs	\$55.55

Flat Cap

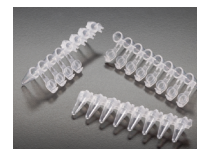
Part No.	Description	Qty	List
T240-149	Natural	1000/cs	\$55.55
T240-147	Blue	1000/cs	\$55.55
T240-148	Green	1000/cs	\$55.55
T240-150	Red	1000/cs	\$55.55
T240-151	Yellow	1000/cs	\$55.55



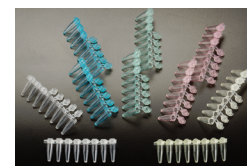
Low Profile Amplitube™ PCR Reaction Strips 100µl - Attached Caps

Made of polypropylene, this flat cap low profile model has a volume of only 100µl per tube, for a total of 8 tubes.

Part No.	Description	Qty	List
T240-092	Flat; Natural	125/pk	\$137.60

**Amplitube™ PCR Reaction Strips 0.2mL - Attached Caps**

Made of polypropylene, this more convenient 0.2mL tube strip incorporates individually attached caps. The strip includes 8 integral 0.2mL tubes with ultrathin sidewalls and bottoms for more uniform and efficient temperature transfer. This PCR reaction strip is available with either flat (needle pierceable) or dome-topped individually attached hinged caps. While easily opened and closed with one hand, their positive sealing will fully protect the contents from evaporation during the whole thermal cycle. The cap has an integral seal preventing contamination with surface of lid. While more easily handled than single tubes, the strip will precisely fit standard well spacing and can also be used with 8-channel hand-held pipettors. Manufactured under the most stringent conditions to attain the highest quality standards in the industry. Choice of colorless and four non-cytotoxic and non-metallic colors. Packed in tamper proof resealable bags.

**Flat**

Part No.	Description	Qty	List
T240-093	Natural	125/pk	\$123.85
T240-090	Blue	125/pk	\$123.85
T240-091	Green	125/pk	\$123.85
T240-094	Red	125/pk	\$123.85
T240-095	Yellow	125/pk	\$123.85

Domed

Part No.	Description	Qty	List
T240-098	Natural	125/pk	\$123.85
T240-096	Blue	125/pk	\$123.85
T240-097	Green	125/pk	\$123.85
T240-099	Red	125/pk	\$123.85
T240-100	Yellow	125/pk	\$123.85

Amplitube™ PCR Reaction Strips 0.2mL - Non Attached Caps

Made of polypropylene, strips include 8 or 12 integral 0.2mL tubes with ultrathin sidewalls and bottoms for more uniform and efficient temperature transfer, therefore reducing PCR reaction time in most 96-well "V" bottomed thermal cyclers such as MJ Research, Perkin Elmer, Hybaid and others. They will precisely fit standard well spacing and can also be used with 8- and 12-channel hand-held pipettors. All strips are molded of polypropylene under the most stringent conditions and are offered, colorless and in four different colors.

Non-attached cap strips are available in a dome or flat top design and ensure a perfect closure during the whole thermal cycle. Cap strips are not included and have to be ordered separately. Packed in tamperproof resealable bags.

**Strips of 8 Tubes**

Part No.	Description	Qty	List
T240-087	Natural	125/pk	\$89.95
T240-085	Blue	125/pk	\$89.95
T240-086	Green	125/pk	\$89.95
T240-088	Red	125/pk	\$89.95
T240-089	Yellow	125/pk	\$89.95

Strips of 8 Domed Caps

Part No.	Description	Qty	List
T240-103	Natural	125/pk	\$28.23
T240-101	Blue	125/pk	\$28.23
T240-102	Green	125/pk	\$28.23
T240-104	Red	125/pk	\$28.23
T240-105	Yellow	125/pk	\$28.23

Strips of 8 Flat Caps

Part No.	Description	Qty	List
T240-108	Natural	125/pk	\$28.23
T240-106	Blue	125/pk	\$28.23
T240-107	Green	125/pk	\$28.23
T240-109	Red	125/pk	\$28.23
T240-110	Yellow	125/pk	\$28.23

Strips of 12 Tubes & Caps

Part No.	Description	Qty	List
T240-082	Tubes; Natural	125/pk	\$145.95
T240-111	Dome Cap; Natural	125/pk	\$60.43

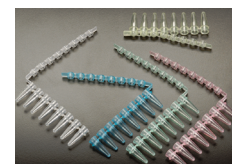
Amplitube™ Thin Wall PCR Reaction Strips 0.2mL - Attached Cap

Made of polypropylene, these reaction strips are identical to the above series but include already attached 8-cap strips molded with a living hinge to facilitate opening and closing. They are manufactured under strict quality control supervision to ensure reproducible results, using a special almost transparent polypropylene.

Individual tube sealing ensures that samples are well protected from any carry-over contamination.

The domed cap design offers a snap shut seal to avoid evaporation during thermal cycling stages.

Packed in tamperproof resealable bags.



Part No.	Description	Qty	List
T240-114	Natural	125/pk	\$116.50
T240-112	Blue	125/pk	\$116.50
T240-113	Green	125/pk	\$116.50
T240-115	Red	125/pk	\$116.50
T240-116	Yellow	125/pk	\$116.50

PCR PLATES

Amplate™ Thin Wall PCR Plates 0.2mL

Made of polypropylene

Thin-walled and designed for rapid thermal transfer. Each well has a capacity of 0.2mL. Precision-molded to ensure well-to-well and plate-to-plate uniformity. The insides of the tubes are smooth and have an inert surface on which enzymes and nucleic acids do not bind.

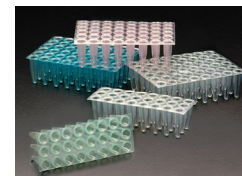
All sealing methods can be used for oil-free operation:

SecureSeal™ Thermal sealing film and foil and Amplate™ Mat. Suitable to be used with all 96-well shaped cyclers. Their flexible design allows them to be easily cut into sections of 24, 32 or 48 tubes.

The plates will accommodate differences in expansion coefficients between the metal thermal cycler block and polypropylene tubes. For more convenience, pre-cut plates are also available in the following formats:

48 tubes (6 x 8) and 24 tubes (3 x 8).

On the 96-well plate, a printed black alphanumeric grid helps sample identification. To facilitate orientation, the bottom right corner of the plate is cut away. The AMPLATE™ is easy to seal since no cylindrical walls extend above the plate. More economical than using single tubes, it is available colorless and in four different colors. Packed in tamperproof resealable bags of 10 plates.



Part No.	Description	Qty	List
M650-692	Natural	50/cs	\$58.35
M650-690	Blue	50/cs	\$58.35
M650-691	Green	50/cs	\$58.35
M650-693	Red	50/cs	\$58.35
M650-694	Yellow	50/cs	\$58.35
M650-702	Natural	50/cs	\$86.10
M650-700	Blue	50/cs	\$86.10
M650-701	Green	50/cs	\$86.10
M650-703	Red	50/cs	\$86.10
M650-704	Yellow	50/cs	\$86.10
M650-712	Natural	100/cs	\$329.15
M650-705	Blue	100/cs	\$329.15
M650-706	Green	100/cs	\$329.15
M650-713	Red	100/cs	\$329.15
M650-719	Yellow	100/cs	\$329.15

Skirted Amplate™ Thin Wall PCR Plates 0.2mL

Made of polypropylene

These skirted 96-well PCR plates are thin-walled and designed for rapid thermal transfer. The skirt around the plate provides a bar coding and labeling area, unavailable in other types of plates. They are precision-molded to ensure well-to-well and plate-to-plate uniformity. Quite superior to polycarbonate plates, they are impermeable to water vapor.

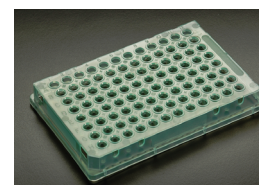
All sealing methods can be used for oil-free operation: domed and flat cap strips, SecureSeal™ Thermal sealing film, foil and Amplate™ Mat. Suitable to be used with all 96-well shaped cyclers.

An alphanumeric grid helps sample identification. To facilitate orientation, corner at H1 of the plate is cut away. The AMPLATE™ is easy to seal since no cylindrical walls extend above the plate. More economical than using single tubes, it is available colorless and in four different colors.

Finally, the Simport® Amplate™ can be handled by robotic handling equipment and is ideal with automated pipetting systems.

Packed in tamperproof resealable bags of 10 plates.

*Minimum quantity applicable. Please contact one of our customer service agents for further details.



Part No.	Description	Qty	List
M650-716	Natural	100/cs	\$355.45
M650-714*	Blue	100/cs	\$355.45
M650-715*	Green	100/cs	\$355.45
M650-717*	Red	100/cs	\$355.45
M650-718*	Yellow	100/cs	\$355.45

Be sure to ask your sales representative about Benchmark's TC9639 Thermal Cycler!



It provides consistent, reliable results for laboratories with medium to high throughput. From its large, touch-screen user interface to its unique, multi-format block, this cycler is loaded with features.

The program wizard and 10 preinstalled programs make it easier than ever to get up and running.

Intuitive touch screen control

Program Wizard - quick, easy & foolproof

Unique multi-format block: 0.2ml tubes or strips (96), 0.5ml tubes (39), 96 well plate (1)

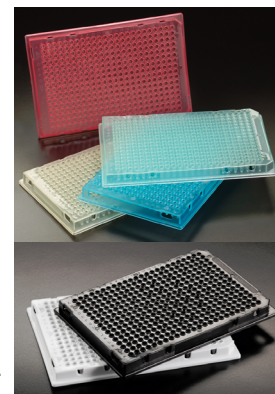


Amplate™ 384 Thin Wall PCR Plates 40µl

For chemiluminescent and fluorescent procedures, the Amplate™ -384 is available in opaque white or black. The white plate will increase signal output in both types of assays. It has been developed for high volume laboratory work. It is precision-molded to ensure well-to-well and plate-to-plate uniformity. The design of the Amplate™ -384 is such that each well having a 40µl capacity can be used with reaction volumes from 2 to 30µl capacity. Only virgin polypropylene is used to manufacture this plate. Although it has 384 wells, it can be filled using automated fluid handling systems or standard multichannel pipettors. All wells on the plate are thin-walled to make sure that an efficient and fast heat transfer is occurring.

In order to offer more surface contact between the plate and the sealing medium, such as thermal foil and adhesive sealing films, there are no cylindrical walls extending above the plate.

The Amplate™ -384 is skirted to allow bar coding on sides for identification and also to make it compatible with automated fluid handling systems. Holes on sides allow for precise and accurate plate positioning and removal. An alphanumeric grid helps in locating the sample. Two corners of the plate are cut away to facilitate orientation. Packed in tamperproof resealable bags of 10 plates.



Part No.	Description	Qty	List
M650-697	Natural	100/pk	\$413.90
M650-695*	Blue	100/pk	\$413.90
M650-696*	Green	100/pk	\$413.90
M650-698*	Red	100/pk	\$413.90
M650-699*	Yellow	100/pk	\$413.90

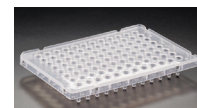
Amplate™ Opaque Skirted 384 Thin Wall PCR Plates 40µl

Part No.	Description	Qty	List
M650-720	Black	100/pk	\$413.90
M650-721	White	100/pk	\$413.90

Amplate™ Semi Skirted Thin Wall PCR Plates 100µl

Made of polypropylene.

This plate is a perfect alternative to the Applied Biosystems MicroAmp® Fast 96-Well Reaction Plate, 0.1mL, reducing PCR reaction time from 2 hours to as little as 25 minutes.



Part No.	Description	Qty	List
M650-689	Natural	100/pk	\$391.05

Low Profile Amplate™ 96 Low Profile Thin Wall PCR Plates 100µl

Made of polypropylene.

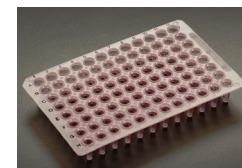
They are thin-walled and designed for rapid thermal transfer. Precision-molded to ensure well-to-well and plate-to-plate uniformity. All sealing methods can be used for oil-free operation: domed and flat cap strips, SecureSeal™ Thermal sealing film, foil and Amplate™ Mat. Suitable to be used with all 96-well shaped cyclers. The flexible design accommodates differences in expansion coefficients between the metal thermal cycler block and polypropylene tubes.

A printed black alphanumeric grid helps sample identification. To facilitate orientation, corner at A1 of the plate is cut away. The AMPLATE™ is easy to seal since no cylindrical walls extend above the plate. More economical than using single tubes, it is available colorless and in four different colors.

Packed in tamperproof resealable bags of 10 plates.

- Alphanumeric grid for better identification
- Flat surface for better sealing
- Small volume reducing dead space between sample and cover

CAN BE USED WITH ALL LEADING THERMAL CYCLERS



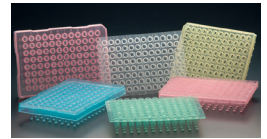
Part No.	Description	Qty	List
M650-709	Natural	100/pk	\$329.15
M650-707*	Blue	100/pk	\$329.15
M650-708*	Green	100/pk	\$329.15
M650-710*	Red	100/pk	\$329.15
M650-711*	Yellow	100/pk	\$329.15

*Minimum quantity applicable. Please contact one of our customer service agents for further details.

Amplate™ Raised Rim Thin Wall PCR Plates

Made of polypropylene

Amplate™ Raised Rim thin wall PCR plates are the latest addition to the wide range of Simport® PCR products. Offering just the right rigidity for automation, these four 96-well plates, made in a standard 8 x 12 configuration, are perfectly suited for high performance thermal cycling. Each well makes intimate contact with the heating block while quick and consistent heat transfer is ensured by a uniform wall thickness. Using a special polypropylene, samples are easily recovered thanks to a low adhesion surface.



These plates offer the right alternative to existing Robbins (-100), Corning (-101), Perkin Elmer (-103) and ABI (-104) models.

Supplied with a wide skirt extending over and under the plate on which a bar code can be affixed to facilitate identification.

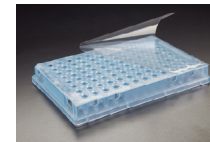
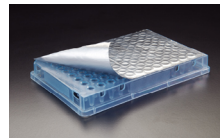
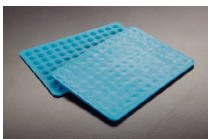
All sealing methods can be used for oil-free operation: domed and flat cap strips; SecureSeal™ Thermal Sealing Film (T240-161);

SecureSeal™ Aluminium Sealing Foil (T240-166) and Amplate™ Mat (T240-162). To facilitate orientation, one corner of the plate is cut away. An alphanumeric grid helps sample identification. Packed in tamperproof resealable bags of ten plates.

*Minimum quantity applicable. Please contact one of our customer service agents for further details.

Part No.	Well Capacity	Description	Raised Rim	Qty	List
M650-676	.250µl	Natural	3mm	100/pk	\$301.43
M650-674*	.250µl	Blue	3mm	100/pk	\$301.43
M650-675*	.250µl	Green	3mm	100/pk	\$301.43
M650-677*	.250µl	Red	3mm	100/pk	\$301.43
M650-678*	.250µl	Yellow	3mm	100/pk	\$301.43
M650-681	.250µl	Natural	3mm	100/pk	\$332.40
M650-679*	.250µl	Blue	3mm	100/pk	\$332.40
M650-680*	.250µl	Green	3mm	100/pk	\$332.40
M650-682*	.250µl	Red	3mm	100/pk	\$332.40
M650-683*	.250µl	Yellow	3mm	100/pk	\$332.40
M650-686	200µL	Natural	1mm	100/pk	\$332.40
M650-684*	200µL	Blue	1mm	100/pk	\$332.40
M650-685*	200µL	Green	1mm	100/pk	\$332.40
M650-687*	200µL	Red	1mm	100/pk	\$332.40
M650-688*	200µL	Yellow	1mm	100/pk	\$332.40

Grab up your sealing film and rollers on page 321



Need a refill on pipette tips?

See pages 360 to 362



VIALS - CRYO

Cryo-Loc® Vials

Ideal for the storage of biological materials, these polypropylene tube with high-density polyethylene (HDPE) cap has an incredibly secure 2-turn closure that includes an external thread. Specifically designed to remove the risk of trapping sample on the inner wall. The difference in hardness between the tube and cap coupled with the cap's molded in sealing ring forms a leak resistant seal. Available with different color caps. Available colors are green, orange, red, white, yellow and assorted. The standard cap color is blue. Round bottom with locking base.



Part No.	Sterile	Size	Qty	List
T100-142	No	2.0mL	1000/cs	\$191.70
T100-148	Yes	2.0mL	500/cs	\$171.40
T100-155	No	2.5mL	1000/cs	\$168.80
T100-160	Yes	2.5mL	500/cs	\$202.40
T100-162	No	3.5mL	1000/cs	\$197.00
T100-170	Yes	3.5mL	500/cs	\$224.05

Cryovial® Specially Formulated Polypropylene

Designed for safe storage at temperatures as low as -196°C (but should be used only in the gas phase of liquid nitrogen). Only 1-1/4 turn of the cap is sufficient to screw the cap on the vial. The specially formulated silicone o-ring ensures a positive leakproof seal at all temperatures. Closure and vial are both made of polypropylene having the same coefficient of expansion, ensuring an equally secure seal both at room temperature and at low cryogenic temperatures. Tubes have a white marking area, can be color coded with a CAPINSERT™ (Series T240-036 to T240-047) and are compatible with most storage systems. Only the non skirted vials can be centrifuged and up to 17,000g. Sterilized by gamma radiation and packaged in unique tamperproof, resealable, safety-lock bags of 100. Autoclavable. Certified RNase-, DNase-, Pyrogen- and DNA-free.



Part No.	Volume	Size	Bottom	Qty	List
T240-000	1.2mL	12.5 x 41mm	Self-Standing	1000/cs	\$394.03
T240-001	2mL	12.5 x 49mm	Self-Standing	1000/cs	\$394.03
T240-002	2mL	12.5 x 48mm	Round Bottom	1000/cs	\$394.03
T240-003	4mL	12.5 x 70mm	Round Bottom	1000/cs	\$394.03
T240-004	4mL	12.5 x 72mm	Self-Standing	1000/cs	\$438.80
T240-005	5mL	12.5 x 90mm	Round Bottom	1000/cs	\$425.35

Cryo-Vial Accessories

True North® Corrugated Freezer Boxes

Economical, Reusable & Moisture Resistant Plastic Tube Storage, Cryo Box, Freezer Box

- made from polypropylene material
- easy self-assemble boxes shipped flat-packed
- more durable than card boxes as they are not susceptible to moisture
- significantly reduces the chance of mold
- dividers included with the boxes
- store down to temperatures of -80°C
- corrugated polypropylene 0.2/0.5/1.5-2.0/5mL



Part No.	Fits	Wells	Well Diam.	Dimensions	Color	Qty	List
M220-675	0.2mL	144	7.9mm	5.2 x 5.1 x 1.2"	Natural	10/pk	\$96.32
M220-677	0.5mL	81	12mm	5.2 x 5.1 x 1.6"	Natural	10/pk	\$96.32
M220-143	1.5-2.0mL	81	12mm	5.2 x 5.1 x 2.0"	Natural	10/pk	\$60.61
M220-679	5mL	25	22.6mm	5.2 x 5.1 x 2.9"	Natural	10/pk	\$96.32

Be sure to check out page 82 with our
Ultra Low Freezers!

Cryostore™ Storage Boxes

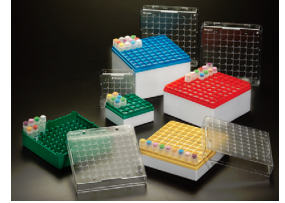
Made of extra strong polycarbonate, these durable cryogenic storage boxes are designed to be used at temperatures between -196°C and +121°C and are autoclavable at 120°C, 15 psig (1 bar) for 20 minutes.

Different models are available to accommodate either 25, 81 or 100 Cryovial® tubes from 1.2 to 5mL.

A transparent cover allows the user to see the contents of the box and is keyed to the base to prevent misalignment. Printed with a series of squares (numbered from 1 to 25, 1 to 42, 1 to 81 or 1 to 100), surface accepts writing with markers, facilitating inventory control.

A unique color coding system uses colored plastic grids to separate the cover from the base on the 25, 42 and 81-place boxes. Those made to accept 100 tubes (series 2100) have a colored base instead of a grid. Removal of vials facilitated by an innovative vial picker supplied with each storage box (not available with box Series-542).

A choice of four popular pastel colors is available.



Series 281: Size: 133 x 133 x 53mm H (5 1/4 x 5 1/4 x 2 3/32" H)

Part No.	For Tubes	Grid Color	Qty	List
T240-057	1 to 2mL	Blue	24/cs	\$246.58
T240-058	1 to 2mL	Green	24/cs	\$246.58
T240-059	1 to 2mL	Red	24/cs	\$246.58
T240-060	1 to 2mL	Yellow	24/cs	\$246.58

Series 481: Size: 133 x 133 x 81mm H (5 1/4 x 5 1/4 x 3 1/8" H)

Part No.	For Tubes	Grid Color	Qty	List
T240-061	3 to 4mL	Blue	12/cs	\$162.73
T240-062	3 to 4mL	Green	12/cs	\$162.73
T240-063	3 to 4mL	Red	12/cs	\$162.73
T240-064	3 to 4mL	Yellow	12/cs	\$162.73

Series 581: Size: 133 x 133 x 95mm H (5 1/4 x 5 1/4 x 3 3/4" H)

Part No.	For Tubes	Grid Color	Qty	List
T240-069	3 to 5mL	Blue	10/cs	\$135.58
T240-070	3 to 5mL	Green	10/cs	\$135.58
T240-071	3 to 5mL	Red	10/cs	\$135.58
T240-072	3 to 5mL	Yellow	10/cs	\$135.58

Series 2100: Size: 133 x 133 x 52mm H (5 1/4 x 5 1/4 x 2 1/16" H)

Part No.	For Tubes	Grid Color	Qty	List
T240-049	1 to 2mL	Blue	24/cs	\$253.13
T240-050	1 to 2mL	Green	24/cs	\$253.13
T240-051	1 to 2mL	Red	24/cs	\$253.13
T240-052	1 to 2mL	Yellow	24/cs	\$253.13

Series 225: size: 76 x 76 x 52 H (3 x 3 x 2 1/16" H)

Part No.	For Tubes	Grid Color	Qty	List
T240-053	1 to 2mL	Blue	48/cs	\$302.60
T240-054	1 to 2mL	Green	48/cs	\$302.60
T240-055	1 to 2mL	Red	48/cs	\$302.60
T240-056	1 to 2mL	Yellow	48/cs	\$302.60

Series 542: Size: 133 x 13 x 95mm H (5 1/4 x 5 1/4 x 3 3/4" H)

Part No.	For Tubes	Grid Color	Qty	List
T240-065	10mL	Blue	10/pk	\$135.58
T240-066	10mL	Green	10/pk	\$135.58
T240-067	10mL	Red	10/pk	\$135.58
T240-068	10mL	Yellow	10/pk	\$135.58

Cryo-Safe Vial Storage Boxes

Durable polycarbonate boxes are ideal for compact storage of 1.2, 2.0 or 5.0mL cryogenic vials.

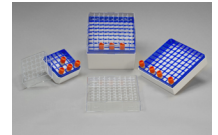
M440-453 can be used with Cryo Tower Storage Systems (M440-470 and M440-471) to save valuable bench space.

Can be used in temperatures from -196°C to +121°C.

Clear lids can be written on with permanent markers and have a printed grid for easy inventory.

Keyed corner aligns the lid with identifying numbers on the rack.

Useful as mailers for vials.



Part No.	Fits	Places	Dimensions	Qty	List
M440-452	1.2 to 2.0mL Vials	25	7.6 x 7.6 x 5.1cm (3 x 3 x 2")	8/pk	\$90.00
M440-453	1.2 to 2.0mL Vials	81	13.3 x 13.3 x 5.1cm (5-1/4 x 5-1/4 x 2")	4/pk	\$66.60
M440-454	5.0mL Vials	81	13.3 x 13.3 x 9.5cm (5-1/4 x 5-1/4 x 3-3/4")	4/pk	\$89.63



Magic Touch™ Ice Buckets

Superior insulating properties combined with high chemical resistance make Magic Touch 2™ Ice Buckets compatible not only with wet ice, but also with ultra-low temperature materials including dry ice, salt slurries, dry ice methanol slurries or liquid nitrogen. Their lightly textured non-slip finish and raised edge provides secure transport and a stylish look. Magic Touch 2™ Ice Buckets are available in 2.5L and 4.0L sizes, each in four colors; blue, black, red and green.



Expanded urethane laboratory ice buckets are lightweight, durable and non-sweating.

Impervious to moisture and odors.

Able to withstand a wide temperature range: -196°C (-320°F) to 100°C (212°F).

Features convenient pour spout, drip-proof rims and fill line indicator.

Includes snug-fitting lid that stores neatly under base when not in use.

Part No.	Capacity	Dimensions	Color	Qty	List
M440-261	2.5L	10-1/2 x 6-1/2"	Blue	1/ea	\$125.94
M440-269	4.0L	0-1/2 x 8-1/4"	Blue	1/ea	\$131.75

Magic Touch™ Ice Pans

Superior insulating properties combined with high chemical resistance make Magic Touch 2™ Ice Pans compatible not only with wet ice, but also with ultra-low temperature materials including dry ice, salt slurries, dry ice methanol slurries or liquid nitrogen. Their lightly textured non-slip finish and raised edge provides secure transport and a stylish look. Magic Touch 2™ Ice Pans are available in 1.0L Mini, 4.0L Midi and 9.0L Maxi sizes, each in four colors; blue, black, red and green.



Expanded urethane laboratory ice pans are lightweight, durable and non-sweating.

Impervious to moisture and odors.

Able to withstand a wide temperature range: -196°C (-320°F) to 100°C (212°F).

Features convenient pour spout, drip-proof rims and fill line indicator*.

Includes snug-fitting lid that stores neatly under base when not in use.

*Item is w/out lid.

Part No.	Capacity	Dimensions	Color	Qty	List
M440-253	1.0L	7-1/4 x 7-1/4 x 4-1/2"	Blue	1/ea	\$79.94
M440-277	4.0L	12 x 9 x 8"	Blue	1/ea	\$131.75
M440-285	9.0L	16-1/2 x 12 x 8"	Blue	1/ea	\$191.31
M440-293*	9.0L	16-1/2 x 12 x 8"	Blue	1/ea	\$145.81

Cool Containers Ice Buckets and Pans

Conveniently nest lid beneath the bucket or pan.

Made of rigid single-molded polyurethane to provide the durability needed for chilling temperature sensitive samples.

With excellent insulation properties for the ultra cold, Cool Containers ice buckets and ice pans are ideal for ice, ice-salt slurries and more.

- The close-fit lid keeps evaporation to a minimum and features a comfortable recessed knob
- The lid and bottom of the bucket/pan are keyed to fit together
- For low-temperature use to -196°C at 1 bar
- Taper design for easy stacking
- Precise pour spout and generous handles
- In four, color-coded, user-friendly sizes



Part No.	Style	Capacity	Dimensions	Color	Qty	List
M220-497	Bucket	4L	7.12 x 9.21"	Black	1/ea	\$131.87
M220-498	Pan	1L	10.51 x 7.69 x 4.48"	Emerald	1/ea	\$96.05
M220-499	Pan	4L	15 x 10 x 5.51"	Artic Blue	1/ea	\$145.71
M220-500	Pan	9L	20.51 x 11.49 x 6.41"	Ruby	1/ea	\$197.21



Needing a Nitrogen Transfer Vessel?

The Thermo Scientific™ Series store and dispense small amounts of liquid nitrogen.

Designed to bring liquid nitrogen to other cryovessels

Lightweight aluminum dewars assure low-static evaporation rates

Optional withdrawal device, 12mL dipper and wheeled accessory cart

Compact Thermo 5 and 10 dewars feature a convenient pail-style handle for pouring and for use in applications where only small quantities of liquid nitrogen are needed

Thermo™ 10, 20 and 30 can be fitted with self-pressurized withdrawal accessory devices to easily dispense LN2 without pouring.

WELL PLATES - DEEP

Polypropylene Deep Well Plates

BRAND® Deep-Well plates are excellent for sample storage, high throughput screening (HTS) assays requiring a motherplate, cell and tissue culture, immunological assays and other applications. Plates have 96- or 384-wells and are available in volumes of 0.3, 0.5, 1.1 and 2.2mL. Wells are labeled in a standard alpha-numeric pattern to simplify sample identification and are stackable for easy storage. Notched corners facilitate orientation in robotic samplers and automated liquid-handling systems.

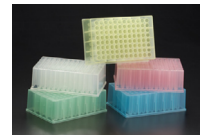
*Item(s) are polystyrene instead of PP like the others.



Part No.	Volume	Well #	Well Shape	Qty	List
P210-141	0.3mL	96	Round	100/pk	\$349.50
P210-144	0.5mL	96	Round	48/pk	\$534.00
P210-145	1.1mL	96	Round	24/pk	\$204.00
P210-147	2.2mL	96	Square	24/pk	\$261.65
P210-146*	1.1mL	96	Round	32/pk	\$256.50
P210-142	1.2mL	96	Round	50/pk	\$411.00
P210-148	0.3mL	96	Square	48/pk	\$873.00

Bioblock™ Deep-Well Plates

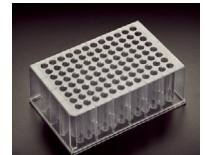
The polypropylene 1.2mL capacity round bottom deep well plate (1mL when capped) is easy to empty completely and ideal for culturing bacterial cells. This version can withstand centrifugation up to 6000g by using microtiter plate rotors. It is available in natural and four different colors. DMSO resistant.



Part No.	Description	Qty	List
M650-761	Natural	24/cs	\$160.38
M650-762	Blue	24/cs	\$160.38
M650-763	Green	24/cs	\$160.38
M650-764	Pink	24/cs	\$160.38
M650-765	Yellow	24/cs	\$160.38

Bioblock™ Deep-Well Plates

The M650-766 is made of polystyrene and also has 96 x 1.2mL capacity round bottom wells. It can withstand 3000g and is available in natural color only. Not DMSO resistant. Packed in bags of 4 plates.



Part No.	Description	Qty	List
M650-766	Natural	24/cs	\$174.63

Bioblock™ Deep-Well Plates

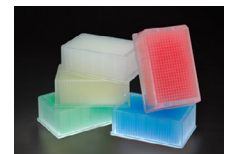
The 2.2mL well capacity (2.1mL when capped) plate is used mainly for compound storage and enzyme assays. Approved to be used with Qiagen equipment. It is available in natural and four different colors. DMSO resistant. Packed in a bag of 4 plates. Polypropylene.



Part No.	Description	Qty	List
M650-662	Natural	24/cs	\$188.73
M650-668	Blue	24/cs	\$188.73
M650-669	Green	24/cs	\$188.73
M650-670	Pink	24/cs	\$188.73
M650-671	Yellow	24/cs	\$188.73

Deep-Well Plates

This 384-well plate is available in 3 models from a working volume of 120µl to 400µl. It is perfect for compound storage and handling of biological samples. Well bottom is round to facilitate aspiration. Suitable to be used with DMSO and biological buffers. Packed in a bag of 4 plates. Made of polypropylene. Volume: 400µL



Part No.	Description	Qty	List
M650-767	Natural	24/cs	\$302.75
M650-749	Blue	24/cs	\$302.75
M650-750	Green	24/cs	\$302.75
M650-751	Pink	24/cs	\$302.75
M650-752	Yellow	24/cs	\$302.75



Multiwell Plate Lids

Crystal-clear polystyrene lids protect samples, reaction batches or cell cultures from contamination and evaporation. The lids are available with and without condensation rings and are optimally matched to BRAND multiwell plates. The cut-corner sets the orientation of the lid for easy placement.



Lids for 96-well plates - Pack of 100 lids (5 lids per bag)

Part No.	Condensation Rings	Height	Qty	List
P210-882	Yes	8mm	100/pk	\$246.00
P210-883	No	8mm	100/pk	\$246.00

Lids for 96-well plates with transparent bottoms/Lids for all 384-well plates - Pack of 50 lids (10 lids per bag)

Part No.	Condensation Rings	Height	Qty	List
P210-884	No	4.5mm	50pk	\$160.50

Lids for all 1536 plates - Pack of 50 (10 lids per bag)

Part No.	Condensation Rings	Height	Qty	List
P210-885	No	5.5mm	50/pk	\$160.50

Non-treated Microplates

BRANDplates® pureGrade™ (non-sterile) and pureGrade™ S (sterile) microplates feature untreated surfaces for use in a variety of laboratory applications such as homogeneous assays, screening and storage. Available in a full range of well shapes and colors in 96-, 384- and 1536-well formats.

Sterile Applications

BRAND pureGrade™ S microplates are sterilized by β -radiation, are DNA-, DNase-, RNase-free and are packaged individually wrapped with lids.

Easy Identification

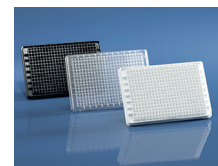
White and black pureGrade™ and pureGrade™ S microplates feature grey embossed alphanumeric codes for easy well identification, in addition to the identification of the pureGrade™ surface.

Easy Selection

Find the right BRANDplates® multiwell plate either by physical characteristics or application with the interactive BRANDplates® selection guide.

Flexibility

BRAND pureGrade™ microplates are available in a strip plate version for greater flexibility.



BRANDplates® non-treated plates, 96-well microplates

Non-sterile plates (pack of 100 plates, 20 stacks of 5 plates, 1 lid per stack)

Sterile plates (pack of 50 plates, individually wrapped with lid)

Sterile

Part No.	Color	Bottom Shape	Volume	Qty	List
P210-787	Transparent	U	330 μ L	50/pk	\$210.00
P210-788	Transparent	V	360 μ L	50/pk	\$210.00
P210-789	Transparent	F	350 μ L	50/pk	\$210.00
P210-791	White	F	350 μ L	50/pk	\$322.50
P210-792	Black	F	350 μ L	50/pk	\$322.50

Non-Sterile

Part No.	Color	Bottom Shape	Volume	Qty	List
P210-769	Transparent	U	330 μ L	100/pk	\$196.50
P210-770	Transparent	V	360 μ L	100/pk	\$196.50
P210-771	Transparent	F	350 μ L	100/pk	\$196.50
P210-772	Transparent	C	350 μ L	100/pk	\$196.50
P210-773	White	U	330 μ L	100/pk	\$345.00
P210-774	White	F	350 μ L	100/pk	\$345.00
P210-775	Black	U	330 μ L	100/pk	\$345.00
P210-776	Black	F	350 μ L	100/pk	\$345.00

BRANDplates® non-treated plates, 96-well transparent bottom microplates

Non-sterile plates (pack of 100 plates, 4 bags of 25 plates)
Sterile plates (pack of 50 plates, individually wrapped with lid)

Sterile					
Part No.	Color	Bottom Shape	Volume	Qty	List
P210-793	White	F	330µL	50/pk	\$888.00
P210-794	Black	F	330µL	50/pk	\$888.00

Non-Sterile

Part No.	Color	Bottom Shape	Volume	Qty	List
P210-777	White	F	330µL	100/pk	\$990.00
P210-778	Black	F	330µL	100/pk	\$990.00

BRANDplates® non-treated plates, 384-well standard microplates

Non-sterile plates (pack of 50 plates, 5 bags of 10 plates)
Sterile plates (pack of 50 plates, individually wrapped with lid)

Sterile					
Part No.	Color	Bottom Shape	Volume	Qty	List
P210-795	Transparent	F	100µL	50/pk	\$292.50
P210-796	White	F	100µL	50/pk	\$360.00
P210-797	Black	F	100µL	50/pk	\$360.00

Non-Sterile

Part No.	Color	Bottom Shape	Volume	Qty	List
P210-779	Transparent	F	100µL	50/pk	\$180.00
P210-780	White	F	100µL	50/pk	\$297.00
P210-781	Black	F	100µL	50/pk	\$297.00

BRANDplates® non-treated plates, 384-well transparent bottom microplates

Non-sterile plates (pack of 50 plates, 2 bags of 25 plates)
Sterile plates (pack of 50 plates, individually wrapped with lid)

Sterile					
Part No.	Color	Bottom Shape	Volume	Qty	List
P210-798	White	F	120µL	50/pk	\$1171.50
P210-799	Black	F	120µL	50/pk	\$1171.50

Non-Sterile

Part No.	Color	Bottom Shape	Volume	Qty	List
P210-782	White	F	120µL	50/pk	\$847.50
P210-783	Black	F	120µL	50/pk	\$847.50

BRANDplates® non-treated plates, 1536-well standard microplates

Non-sterile (pack of 50 plates, 5 bags of 10 plates)
Sterile plates (pack of 50 plates, individually wrapped with lid)

Sterile					
Part No.	Color	Bottom Shape	Volume	Qty	List
P210-800	Transparent	F	10µL	50/pk	\$1800.00
P210-801	White	F	10µL	50/pk	\$1800.00
P210-802	Black	F	10µL	50/pk	\$1800.00

Non-Sterile

Part No.	Color	Bottom Shape	Volume	Qty	List
P210-784	Transparent	F	10µL	50/pk	\$1470.00
P210-785	White	F	10µL	50/pk	\$1470.00
P210-786	Black	F	10µL	50/pk	\$1470.00

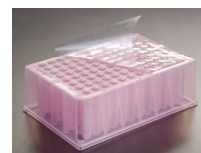


Well Plate Accessories

SecureSeal™

The functional temperature range of the product is -40°C to +120°C. SecureSeal™ is less than .001% moisture permeable under high humidity conditions and less than .01% oxygen permeable. DMSO resistant. Each package contains 100 sheets.

Part No.	Sterile	Qty	List
T240-164	No	1000/cs	\$648.35
T240-165	Yes	1000/cs	\$729.23

**Amplate™**

For ensuring a perfect seal when using either SecureSeal™ Thermal sealing film or foil on PCR plates. Roller made of medium hard rubber. Heavy-duty handle with comfort grip reducing fatigue. Will last a long time.

Part No.	Size	Qty	List
T240-168	4" (10.16cm)	1/ea	\$41.80

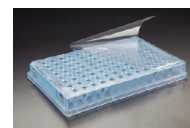
**Thermal Adhesive Sealing Film for PCR Application**

This transparent sealing tape consists of a 2.0mil polyolefin film coated on one side with a pressure sensitive acrylate adhesive which does not interfere with cycle reactions. It is ideal for reducing well-to-well contamination and/or spill over in sensitive PCR applications where the minimization of evaporation and vapor loss is critical.

SecureSeal™ Thermal Film was developed with the assistance of a major cyler manufacturer for PCR applications. Not only does it offer low-autofluorescence but it will prevent vapor loss and is thermostable and functional from -70°C to +100°C.

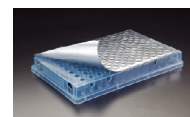
Certified RNase, DNase and DNA-free. DMSO resistant.

Part No.	Sterile	Qty	List
T240-161	No	1000/cs	\$894.70
T240-163	Yes	1000/cs	\$970.33

**Aluminum Sealing Foil**

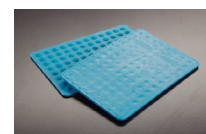
This type of material is ideal for manual sealing during PCR work and also for high throughput applications. Adhesive backing makes it easy to apply. Will resist temperatures from -80°C to +120°C. It is recommended to use the Amplate™ Roller (T240-168) to ensure a perfect bond, eliminating the dangers of evaporation. Pierceable with a pipet tip for easy access to sample. Certified RNase, DNase and DNA-free. DMSO resistant.

Part No.	Description	Qty	List
T240-166	Peeling Foil	100/pk	\$146.25

**Santoprene Mat**

This flexible sealing cover is used on 96-well plates along with clip down and screw top thermal cyclers and has been proven to be a secure and effective way of sealing. Since it is reusable, it is a nice way to make this step of the procedure cost effective. Dimples on one side of the mat ensure it is well placed over the tubes. Can be used in temperatures ranging from -20°C to +121°C.

Part No.	Description	Qty	List
T240-162	Blue	5/pk	\$61.70

**Adjustable Microplate Tilting Stand**

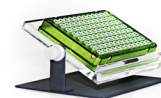
Make precise additions of liquid components to microplate wells by adjusting plates to the most convenient angle. The angular presentation of the plate and clear acrylic platform beneath allows you to easily judge which wells have received liquid addition by comparing the menisci between neighboring wells. Max tilt 45°. Pivots on 2 screws. Helps reduce errors in non-manifold additions of assay components to a multiwell microplate, including expensive, hazardous or radioactive materials.

Epoxy coated steel base provides stability.

Hand adjustable clamping screws maintain the desired angle.

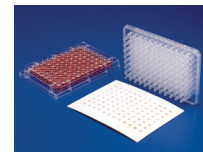
Holds all sizes of microplates.

Part No.	Description	Qty	List
R100-283	11.4 x 16.5 x 5.7cm (4-1/2 x 6-1/2 x 2-1/4")	1/ea	\$167.63



Colony Replicating Tool for 96-Well Plates

Designed to do tedious tasks with a minimum of effort, the 96 open-ended pipette tips of this unique product fit all types of 96 well plates from flat, vee or round bottom plates to 0.2mL thin walled PCR plates and tubes. Tip will retain up to 10mL of fluid for placement onto filter paper, plate or other receiving media. Can be used for replication of recombinant DNA libraries, inoculation of filters for colony hybridization, PCR, phage typing and other applications. Made of polycarbonate; easy-to-use. Reusable, autoclavable.



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
M441-257	Colony Replicating Tool	1/ea	\$36.60	10/cs	\$244.00

Low Temp PCR® Rack 96 Well 0.2mL

Slide, Set, Work & Store PCR Samples

The PCR Storage Rack, by Heathrow Scientific, offers a sleek and modern design that's packed full of features. The patent pending design offers a unique lid the rack slides out from and then rotates 180°, to become a convenient stand the rack sits on. Ergonomic textured finger grips provide a secure hold, reducing the chance of dropping the PCR rack and makes handling and transportation easy, especially when using gloves. The lid has a side opening that enables faster cooling of samples to ensure integrity and is made from translucent polycarbonate for easy sample and well identification.



The PCR rack base is made from robust ABS construction that helps keep samples safe so you don't have to spend extra money and time on expensive retesting. A location ID of numbers and letters allows for organized sample placement which results in easy and quick sample retrieval. The PCR rack has a closed base design that helps samples integrity by staying cold longer.

The PCR storage rack is versatile; it can be used on a bench top or for freezer storage. The compact footprint is stackable, which helps save valuable space in the lab. The PCR storage rack is offered in multiple colors for coding options.

The lid is ambidextrous; it can be switched to accommodate left or right hand orientation.

The lid is detachable.

Holds 0.2mL tubes, individual or strip.

96 wells 8x12 configuration.

Can be used for freezer storage down to -80°C (-112°F).

Patent Pending.

Well Dia.: 5.2mm

L x W x H: 12.5 x 9.2 x 3.7cm (4.9 x 3.6 x 1.5")

Part No.	Description	Qty	List
M220-702	Assorted (Blue, Green, Purple, Yellow, Orange)	5/pk	\$50.21
M220-703	Blue	5/pk	\$50.21
M220-704	Green	5/pk	\$50.21
M220-705	Purple	5/pk	\$50.21

MEDIA

SwabCheck

The surface is wiped with a cellulose swab and any bacteria collected are transferred via the swab into a tube containing a special medium with an indicator dye, which is then incubated. A single bacterium is sufficient to cause a color change. This means that SwabCheck is about 1000 times more sensitive than the conventional ATP method. This accuracy is particularly important in the food industry. With this simple method, it is possible to identify microorganisms such as *Listeria monocytogenes*, which must not be present in any concentration in food or beverages.



- The right test for each type of contamination
- Sterile packed and ready-for-use.
- Rapid results.
- Qualitative and semi-quantitative hygiene control.
- Easy to handle.
- Long shelf-life.

Part No.	Description	Qty	List
F661-385	Neutralizing Buffer Swabs, 4mL	125/pk	\$357.14
F661-386	Neutralizing Buffer Swabs, 4mL	500/pk	\$1428.57
F661-387	Buffer Swabs, 4mL	125/pk	\$357.14
F661-388	Buffer Swabs, 4mL	500/pk	\$1428.57
F661-389	Total Count Swab Kit	30/pk	\$338.91
F661-390	Yeast and Mold Swab Kit	30/pk	\$338.91
F661-391	SwabCheck Escherichia coli, 4mL	125/pk	\$871.54
F661-392	SwabCheck, 4mL	125/pk	\$839.23
F661-393	Coliform SwabCheck, units ready to use	25/pk	\$391.17
F661-394	Hygiene SwabCheck, units ready to use	25/pk	\$391.17
F661-395	Listeria SwabCheck, units ready to use	25/pk	\$391.17



BioPaddles®

- Ready to use. Saves time.
- Longer shelf-life than traditional petri dishes.
- No refrigeration required.
- Simple incubation requirements.
- Unique design enhances colony morphology characterization.
- Apps available for presumptive ID's.
- BioPaddles® are flexible dual-agar paddles each containing microbe-specific media enclosed in a sterile vial.



Identify and quantify microbes in air, soil, water or any surface. BioPaddles® do not require any other testing equipment – only a magnifier and warm place (35°C or incubator) are needed.

- **Liquid Sampling:** Remove the paddle from the vial and fill the vial (approximately 40ml) with the sample. Insert the paddle, swirl for 15 seconds. Pour out the liquid and replace the paddle in the vial and incubate.
- **Surface Sampling:** Remove the paddle from the vial and gently touch each paddle media surface to the sample surface twice per side. Replace paddle in the vial and incubate.
- **Air Sampling:** Remove the paddle from the vial. Invert and mount the circular cap into the vial, exposing the agar covered paddle. Expose for 15 minutes. Replace the paddle in the vial and incubate.

All BioPaddle® products include a free app. LaMotte BioPaddle® Colony ID lite App allows users to compare the “unknown” microbe growth on the BioPaddle® to a library of images of “known” microbe colonies from 5 microhabitats (air, water, soil, surface and food).

Also includes a technical information sheet.

Note: Dated material. Specify ship date. Orders may be placed in advance.

Part No.	Description	Qty	List
K441-548	Nutrient Agar (NA)	10/pk	\$51.29
K441-549	Sabouraud Dextrose Agar (SAB)	10/pk	\$51.29
K441-550	Tryptic Soy Agar (TSA) & Rose Bengal Chloramphenicol Agar (RB)	10/pk	\$51.29
K441-551	Nutrient-TTC Agar (NUT-TTC) & MacConkey Agar (MAC)	10/pk	\$51.29
K441-620	Total Coliform Activity	10/pk	\$71.15

Biological Indicators**EZTest Biological Indicator**

EZTest is a self-contained biological indicator for monitoring steam / flash steam, ethylene oxide or hydrogen peroxide sterilization. EZTest contains bacterial spores on a filter-paper carrier packaged within a small, thermoplastic culture tube. Inside the thermoplastic culture tube is a sealed-glass ampoule of specially-formulated soybean casein digest culture medium containing a color indicator which turns a dramatic yellow when spores grow. EZTest is easy-to-use and produces visual results within 24 hours (steam or hydrogen peroxide) or 48 hours (ethylene oxide) without laboratory transfers.

FDA 510(k) Cleared (steam and EO)

24 hour results for steam or H₂O₂

48 hour results for EO

Easy to Culture

No Laboratory Required

Dramatic Color Change

**Steam Biological Indicator Test Pack (PCD)**

Part No.	Species	Min. Population	Qty	List
I700-312	G. stearothermophilus	1.0 x 10 ⁵	25/pk	\$679.63

Smart-Read® EZTest® Steam Biological Indicator Test Pack (PCD)

Part No.	Species	Min. Population	Qty	List
I700-179	G. stearothermophilus	1.0 x 10 ⁵	25/pk	\$704.50
I700-180	G. stearothermophilus	10 x 6	25/pk	\$1142.65

Did you miss the autoclaves? You can find them on page 70-71

Don't see the model you are looking for?

Contact your sales representative for more options!

Smart-Read EZTest Biological Indicator

The Smart-Read EZTest® Biological Monitoring System allows an organization to release sterile product with true biological confirmation faster and easier than ever before.

This unique system uses a real biological indicator (BI) -- with no added enzyme or chemical integrator -- which is incubated, evaluated and documented in one simple, automated operation. Relying only upon bacterial spore growth, the Smart-Read system can detect sterilization failure in as few as three to five hours and negative results can be confirmed with ten hours of incubation.

Mesa Biological Indicators

Smart-Read EZTest® Biological Indicator Monitoring System

Fast biological results

True biological system

Easy one-step evaluation

Automatic documentation

Sterilization failure alarm

100% verifiable results



Smart-Read EZTest® SCBI

Part No.	Species	Mini Population	Qty	List
1700-174	G. stearothermophilus	1.0 x 10 ⁵	100/pk	\$650.95
1700-176	G. stearothermophilus	1.0 x 10 ⁶	100/pk	\$1148.68

Smart-Well® Incubator

Part No.	Incubation Cells	Temperature	Qty	List
1700-231	10+ control	60°C	1/ea	\$5560.85

Thermo Scientific™ Biological Indicators, Incubator and Pouches

Easy and inexpensive methods to monitor steam sterilizer effectiveness.

Indicators verify sterility of instruments, vials, media, liquid cycles and other products in less time than it takes to send samples to an outside lab. Choice of two biological indicators: for media and liquids or for instruments, glassware and other applications.

Color change from purple to yellow indicates an ineffective sterilization process.

Part No.	For Use With	Qty	List
1626-001	Instruments, glassware and other apparatus	5/pk	\$55.13
1626-002	Steam sterilization	250/pk	\$75.17
1626-003	Instruments, glassware and other apparatus	100/pk	\$767.81
1626-004	Media and additives	100/pk	\$803.02
1626-005	Media and additives	25/pk	\$253.23

Spore Strips Biological Indicator

MesaStrip® is a conventional paper strip biological indicator for monitoring steam, low temperature steam formaldehyde, ethylene oxide, dry heat, chlorine dioxide and gamma radiation industrial sterilization processes. MesaStrip® contains bacterial spores on a filter paper carrier sealed within a convenient, peel-open glassine envelope. To use a MesaStrip®, simply place the envelope inside a product or product package. This "inoculated package" is placed in a sterilizer and processed. Upon removal from the sterilizer, the inoculated package is sent to the microbiology laboratory for transfer of the MesaStrip®. The BI is to be aseptically cultured in soybean casein digest medium and incubated at the appropriate temperature.

Autoclave Validations

EO Sterilization

Irradiation Sterilization

Mesa Biological Indicators

MesaStrip® biological indicators are traceable to a recognized culture collection and certified for population, D-value, z-value (steam) and performance.

Steam Applications

Multiple Species Available

Store at room temperature.



Part No.	Process	Species	Log	Qty	List
1700-282	Steam	G. stearothermophilus	10 ⁵	100/pk	\$396.55
1700-283	Steam	G. stearothermophilus	10 ⁶	100/pk	\$964.88
1700-284	Low Temp. Steam	B. subtilis (5230)	10 ⁶	100/pk	\$1094.43
1700-279	Ethylene Oxide and Dry Heat	B. atrophaeus	10 ⁶	100/pk	\$330.45
1700-280	Gamma Radiation	B. pumilus	10 ⁶	100/pk	\$429.58
1700-034	Chlorine Dioxide	B. atrophaeus	10 ⁶	100/pk	\$1290.33



Releasat® Spore Strips & Culture Media

Releasat® is a biological indicator culturing kit containing MesaStrip™ paper strip biological indicators and culture tubes of specially formulated soybean casein digest culture medium containing a color indicator which turns a dramatic yellow when spores grow. Kits are available for monitoring ethylene oxide, dry heat and chlorine dioxide sterilization processes.



The color indicator provides visual results within 48 hours (ClO₂) or 72 hours (EO/Dry Heat) as opposed to the standard seven days.

Releasat® medium is used to culture the MesaStrip™ in place of “generic” soybean casein digest medium and provides a more rapid read-out. Each lot of Releasat® culture tubes are quality control tested with appropriate MesaStrips.

72 hour results (EO/Dry Heat)

48 hour results (ClO₂)

Dramatic color change

Store at room temperature.

MesaStrip™ biological indicators are traceable to a recognized culture collection and certified for population, D-value and performance using Releasat® media. Each set includes MesaStrips™ and Releasat® media.

Part No.	Species	Use	Min. Population	Qty	List
1700-270	B. atrophaeus	EO/Dry	1.0 x 10 ⁶	100/pk	\$664.15

SterilAmp® II Liquid Submersible SCBI for Steam

SterilAmp® II is a compact, self-contained biological indicator for monitoring industrial steam sterilization of liquids in small containers. SterilAmp® II precisely integrates the process lethality.

48-hour results

Small, conveniently-shaped ampoule

No laboratory required

Dramatic color change

Packaged with 10 negative controls

Refrigerate at 2-8°C.

SterilAmp® biological indicators are traceable to a recognized culture collection and certified for population, D-value, z-value, Fo value and performance.



PASS FAIL

Part No.	Species	Min. Population	Qty	List
1700-167	G. stearothermophilus	1.0 x 10 ⁴	100/pk	\$793.08
1700-168	G. stearothermophilus	1.0 x 10 ⁵	100/pk	\$793.08
1700-169	G. stearothermophilus	1.0 x 10 ⁶	100/pk	\$1258.85

MagnaAmp® Spore Strips and Culture Media

Self-contained biological indicator ampoule for monitoring steam sterilization of liquids in containers or washer sterilizers. The MagnaAmp® biological indicator ampoules contains Geobacillus stearothermophilus spores and a specially-formulated culture medium that turns a dramatic yellow if spores grow. The MagnaAmp® provides easy visual confirmation of sterilization within 48-hours, without the need for difficult and time-consuming laboratory work.

Small (1ml), conveniently shaped ampoule

Designed to sink in container

Negative controls are included with each box of product

No laboratory required

Dramatic color change

Refrigerate at 2-8°C.

MagnaAmp® biological indicators are traceable to a recognized culture collection and certified for population, D-value, z-value, Fo value and performance.



Part No.	Species	Min. Population	Qty	List
1700-262	G. stearothermophilus	1.0 x 10 ⁴	50/pk	\$403.15
1700-263	G. stearothermophilus	1.0 x 10 ⁵	50/pk	\$403.15
1700-264	G. stearothermophilus	1.0 x 10 ⁶	50/pk	\$654.28

Glass Disposal Boxes can be found on page 509.

DriAmp® Biological Indicator for Dry Heat

Appropriate for either high temperature direct air exposure or submersion in oils and other non-water based solutions where traditional paper strip indicators are difficult to use. The DriAmp BI is a 1mL snap-top glass ampoule containing silica material inoculated with 10⁶ Bacillus atrophaeus (#9372) spores. All materials are compatible with extremely high temperatures such as those delivered by dry heat tunnels or ovens used for the sterilization of instruments and depyrogenation in the manufacture of aseptically filled pharmaceutical liquids.

The Releasat culture medium is specially formulated for rapid outgrowth of B. atrophaeus and is supplied in individual tubes for easy aseptic transfer and culturing. This medium offers the advantage of a 72-hour reduced incubation time compared to 7 days with competing products. Test results are obtained during incubation by observing the medium which changes color from red-orange to yellow if any spores have survived the process.

small, conveniently-shaped ampoule (49 x 11mm); suitable for high temperature dry heat sterilization of instrumentation and depyrogenation; dramatic color change; store at room temperature.

DriAmp biological indicators are traceable to a recognized culture collection and certified for population, D-value, z-value and performance.



Part No.	Species	Min. Population	Qty	List
I700-060	B. atrophaeus	1.0 x 10 ⁶	50/pk	\$635.23

ProSpore Ampoule Self-Contained 4mL Glass Ampoules for Steam Sterilization

ProSpore Ampoule is a self-contained biological indicator for steam sterilization ideal for validating the sterilization of liquid loads. No activation is required. Simply expose the unit to the sterilization process and incubate afterwards.

ProSpore Ampoule is validated for 48-hour reduced incubation.

510(k) received for use at 121°C for healthcare facilities.

May be used between 118 - 135°C*

Vivid purple to yellow color change

*Industrial Use Only

Note: ProSpore Ampoule is a refrigerated item and requires overnight shipping.

Each lot of ProSpore is certified for population, species, D-value, z-value, purity and expiry. Shelf life is 18 months from date of manufacture. ProSpore (log 5 and higher) comply with AAMI/ISO 11138-1 and AAMI/ISO 11138-3.

ProSpore Ampoule is a hermetically sealed, type I borosilicate glass ampoule. The ampoule is filled with a modified Soybean Casein Digest Broth containing bromocresol purple acid indicator. Each ampoule also contains a population of G. stearothermophilus spores. ProSpore Ampoule (4mL) has received 510(k) notification for sale to healthcare facilities with a 48-hour incubation period. Growth is evident by either turbidity and/or a color change from purple to or toward yellow. Expiration is 18 months from the date of manufacture.

Outer Diameter: 14.75mm +/- 0.15mm

Height: 52.0 - 55.0mm



Part No.	Species	Min. Population	Qty	List
I700-150	G. stearothermophilus	1.0 x 10 ⁴	10/pk	\$90.95
I700-151	G. stearothermophilus	1.0 x 10 ⁴	50/pk	\$346.95
I700-152	G. stearothermophilus	1.0 x 10 ⁵	10/pk	\$93.68
I700-153	G. stearothermophilus	1.0 x 10 ⁵	50/pk	\$346.95
I700-154	G. stearothermophilus	1.0 x 10 ⁶	50/pk	\$623.18

Culture Media

Prepared Culture Media

Soybean Casein Digest Broth is the recommended media for use with Biological Indicators. Use of another media may detrimentally affect outgrowth of spores. Mesa's TSB with Bromocresol purple pH indicator is specially formulated for use with our biological indicators. Prepared Media is packaged in 16 x 100mm Type I borosilicate glass tubes with polypropylene screw-caps (white rubber liners).

24-Hour Incubation

A reduced incubation time of 24 hours at 60°C +/- 2°C has been validated for steam sterilization when the Mesa Bacterial Spore Strip (either the single species G. stearothermophilus spore strip or the dual species spore strip) is used in conjunction with Mesa's Modified Tryptic Soy Broth with Bromocresol Purple.

Dehydrated Culture Media

Mesa recommends Difco TSA and TSB for use in verifying the certified label claims for our products. Mesa uses Difco media in-house for the manufacture and QC testing of our products.



Part No.	Tryptic Soy Broth	Fill	Tube Size	Qty	List
I700-236	Tryptic Soy Broth w/Bromocresol Purple	6.5mL	16 x 100mm	100/pk	\$305.55

Part No.	Spore Strips (By Process)	Species	Log	Qty	List
I700-002	Steam	G. stearothermophilus	10 ⁵	100/pk	\$385.00
I700-005	Steam	G. stearothermophilus	10 ⁶	100/pk	\$936.78
I700-003	Combined	B. atrophaeus & G. stearothermophilus	10 ⁶ /10 ⁵	100/pk	\$363.48
I700-004	Ethylene Oxide & Dry Heat	B. atrophaeus	10 ⁶	100/pk	\$330.45



Bottled Media**2mL Ampoules Bottled Media**

Part No.	Description	Qty	List
F661-338	M-Green Yeast and Mold Broth	50/pk	\$138.97
F661-339	M-TGE Broth	50/pk	\$138.94
F661-340	M-Endo Coliform Broth	50/pk	\$138.94
F661-341	Orange Serum Broth	50/pk	\$138.94
F661-342	Pry Both 2mL	50/pk	\$138.94
F661-343	Wallerstein Broth	50/pk	\$385.54
F661-344	Wallerstein Differential Broth	50/pk	\$179.69
F661-345	MRS Broth	50/pk	\$437.06
F661-346	Total Count Broth with TTC	50/pk	\$138.91
F661-347	M-FC Broth with rosolic acid	50/pk	\$138.94
F661-348	M-Green Select Broth	50/pk	\$170.29
F661-349	Pseudomonas Broth	50/pk	\$138.94
F661-350	Enterococcus Broth	50/pk	\$193.14
F661-351	Mannitol Salt Broth	50/pk	\$193.14
F661-352	M-FC media	50/pk	\$138.94
F661-353	KF-Streptococcus Broth	50/pk	\$150.54
F661-356	Cetrimide Broth	50/pk	\$209.20
F661-357	HPC Broth	50/pk	\$184.46
F661-359	Heterotrophic Plate Count (HPC) Broth, 2mL	50/pk	\$138.94
F661-360	MI-Broth Media	50/pk	\$262.17
F661-358	Trypticase Soy Broth (TSB), 2mL	50/pk	CALL

**9mL Tubes**

Part No.	Description	Qty	List
F661-364	EC with MUG, Bottled Broth	20/pk	\$143.09
F661-365	Brilliant Green Bile Bottled Broth, with Durham tubes	20/pk	\$143.09
F661-366	EC Bottled Broth, with Durham tubes	20/pk	\$134.66

**Bottled Media**

Part No.	Description	Qty	List
F661-361	M-Green Yeast and Mold Bottled Agar, 100mL	1/ea	\$62.29
F661-362	Trypticase Soy Broth (TSB) Single strength, Bottled Broth, 100mL	1/ea	\$65.66
F661-363	Trypticase Soy Broth (TSB) Double strength, Bottled Broth, 100mL	1/ea	\$75.77
F661-368	MI Media, Bottled Agar, 50mL	1/ea	\$75.77
F661-369	MI Media, Bottled Broth, 50mL	1/ea	\$82.66
F661-355	Trypticase Soy Broth (TSB), 500mL	1/ea	\$86.49



Get bottled up with our selection of Media/Storage bottles.

Variety of options can be found on page 154.



Dry Medium

Agars and broths are available in 500g, 2kg and 10kg.

*Some items are subject to 10kg minimums.

Contacts us for more information.

Agars

Part No.	Description
A01-102	Bacteriological Agar
A01-115	Anaerobic Agar
A01-116	A-1 Medium
B02-101	Bacillus Cereus Agar
B02-102	Baird Parker Agar
B02-106	Bile Esculin Agar
B02-108	Bismuth Sulfite Agar
B02-112	Brain Heart Infusion Agar
B02-115	Brilliant Green Agar
B02-122	Brilliant Green Bile Agar
B02-125	Barney Miller Agar
D04-112	D/E Neutralizing Agar
E05-100	EC Medium
E05-101	EC Medium with Mug
E05-102	Baird Parker Agar
E05-103	EMB Agar, Levine
E05-110	Endo Agar
L12-103	Lactobacilli MRS Agar [LMRS Agar]
L12-108	Lethen Agar Base
M13-106	Macconkey Agar
M13-113	Malt Extract Agar
M13-114	Mannitol Salt Agar
N14-100	Nutrient Agar
P16-109	Potato Dextrose Agar
P16-112	Pseudomonas F Agar
P16-113	Pseudomonas P Agar
R18-100	R2A Agar
S19-100	Sabourand Dextrose Agar
S19-100C	SAB.DEX. Agar w/Chloramphenicol
S19-101	SAB.DEX. Agar w/Lecithin + Tween 80
S19-103	Salmonella Shigella Agar
S19-112	Soy Peptone Yeast Extract Agar
S19-113	Standard Methods Agar
S19-114	Staphylococcus Agar #110
T20-107	TSI Agar
T20-108	Trypto Soy Agar
T20-109	Trypto Soy Agar w/Lecithin & Tween 80
T20-112	Trypto Glucose Extract Agar
U21-100	Universal Beer Agar
U21-102	Urea Agar Base
W23-102	WL Nutrient Agar
X24-101	XLD Agar

Broths

Part No.	Description
B02-118	Brilliant Green Bile Broth 2%
D04-115	D/E Neutralizing Broth
F06-102	Fraser Broth
H08-101	Heart Infusion Broth
L12-104	Lactobacilli MRS Broth [LMRS Broth]
L12-105	Lactose Broth
L12-106	Lauryl Sulfate Broth
L12-107	Lauryl Sulfate Broth with MUG
L12-109	Lethen Broth Base
L12-110	Listeria Enrichment Broth
L12-109M	Modified Lethen Broth
M13-103	M-FC Broth
M13-111	MacConkey Broth
M13-129	Malt Extract Broth
P16-105	Phenol Red Dextrose Broth
P16-110	Presence Absence Broth
P16-126	Potato Dextrose Broth
T20-110	Trypto Soy Broth
U21-102B	Urea Broth Base

Prepared Media

Part No.	Description
B2028	TSB 100mL, 8OZ Paragn (CLN RM) {2WK}
P1110	TSA w/5% SB, 30mL Mono
P1410	Mannitol Salt Agar 20mL Mono
P1525	R2A Agar 20mL 100 X 15mm Mono
P1550	SDA 24mL (Deep Fill) Mono-5 DAYQC
P1659	TSA w/Lec. & Polys. 80 20mL, Mono
P1660	TSA 20mL 100 X 15mm {Top Stamp}
P4000	TSA w/Lec & Polysorb 14mL Contact
P6045	M-FC Agar w/1% RA 10mL 60 X 15mm
P7400	Modified M-Tec Agar 4.3mL, 47mm Dish
P7450	M-EI Agar 8mL, 60 X 15mm Filter Dish
T1520	MacConkey BR,10mL,16 X 125 w/Dur S/C
X1150	Indole Reagent (Kovacs) 25mL 1oz Amber Bottle w/ Eye Dropper
X1265	Oxidase Reagent 25mL 1oz Amber Bottle w/ Eye Dropper

Other

Part No.	Description
B02-121	Buffered Peptone Water
F06-101	Fluid Thioglycollate Medium

Protect against glass splinters and cross contamination with these Ampule snappers from Wheaton.



We also have a variety of clear or amber ampules, standard or prescored.



CompactDry™

Ready-to-use system reducing the time needed to perform microbial testing on food, beverage, meat, cosmetics and raw materials. Place 1mL of sample onto the plate and incubate. Colonies grow and develop specific colors from chromogenic substrates. This provides for easy organism differentiation and counting.

Easy to use - Pour sample on plate, place cap on and incubate.

Stackable - For increased conservation of space, both in incubator and refrigerator. No special storage racks are needed.

Long Shelf Life - 18 month shelf life from date of manufacture.

Easy Labeling - Each plate has a write-on area for written identification.

Improved clarity - For better visibility of the growing culture and to read results.

Easy-to-handle - Rigid plastic frame with easy opening lid.

Self diffusing media - Sample diffuses automatically and evenly. No need for spreader.

EC, Escherichia coli and Coliforms

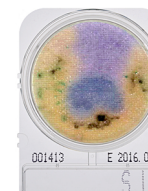
Compact Dry™ EC contains two kinds of chromogenic enzyme substrates: Magenta-Gal and X-Gluc. E. coli forms blue colonies, Coliforms turn red. The total coliform group count is the sum of both the red and blue colonies. Compact Dry™ EC is AOAC, MicroVal and NordVal approved.



Part No.	Description	Qty	List
EC100	Compact Dry EC HDx	100/cs	CALL

SL, Salmonella

Compact Dry™ SL determines the presumptive identification of Salmonella spp. Colonies of Salmonella will turn green or blue-green with or without black centers due to the presence of chromogenic substances.



Part No.	Description	Qty	List
SL100	Compact Dry SL HDx	100/cs	CALL

LS, Listeria spp

Compact Dry™ LS for the isolation, presumptive identification and enumeration of Listeria spp. Colonies of Listeria will turn blue due to the presence of chromogenic substances.



Part No.	Description	Qty	List
LS100	Compact Dry LS HDx	100/cs	CALL

TC, Total Plate Count

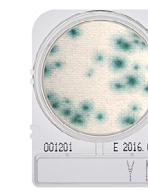
Compact Dry™ TC is a ready-to-use test method recommended for the determination of total aerobic bacterial counts in raw materials, finished products or on environmental surfaces pertaining to food and related industries.



Part No.	Description	Qty	List
TPC100	Compact Dry TC HDx	100/cs	CALL

YM, Yeast and Mold

Compact Dry™ YM, yeasts and mold can be differentiated by color. The medium contains the chromogenic enzyme substrate X-Phos which turns blue with most yeasts. Molds form fluffy colonies with a characteristic color. Compact Dry™ YM is AOAC, MicroVal and NordVal approved.



Part No.	Description	Qty	List
YM100	Compact Dry YM HDx	100/cs	CALL

X-SA, Staphylococcus aureus

Compact Dry™ X-SA is a ready-to-use test method recommended for the isolation and enumeration of Staphylococcus aureus in raw materials, finished products or on environmental surfaces pertaining to food and related industries.



Part No.	Description	Qty	List
XSA100	Compact Dry X-SA HDx	100/cs	CALL

ETB, Enterobacteriaceae

Compact Dry™ ETB is a ready-to-use test method recommended for the isolation and enumeration of organisms belonging to the family Enterobacteriaceae in raw materials, finished products or on environmental surfaces pertaining to food and related industries. Colonies from the Enterobacteriaceae group will turn red or purple due to the presence of chromogenic substances. Compact Dry™ ETB is MicroVal and NordVal approved.



Part No.	Description	Qty	List
ETB100	Compact Dry ETB* HDx	100/cs	CALL

Columbia Blood Agar, 5% sheep, 15 x 100mm plate

Columbia Blood Agar is recommended for use as a general growth medium for the cultivation and hemolytic determination of fastidious and non-fastidious microorganisms from clinical specimens.

Optically clear polystyrene - For distortion free viewing.

Heavy-Duty - Reduces breakage during shipping.

Stacking rings - Polystyrene Petri plates feature raised rings for stacking ability and prevents sliding.

Breathable Packaging - Packaged in sleeves of 10 plates in a "breathable" bag that prevents buildup of condensation and excess moisture.



Part No.	Description	Qty	List
A16BX	Columbia Blood Agr HDx, 15 x 100mm plt	100/pk	CALL

MYP (Mannitol Yolk Polymyxin) Agar, for Bacillus cereus, 15 x 100mm plate

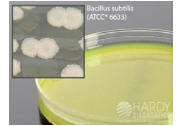
For use in the enumeration of Bacillus cereus from foods.



Part No.	Description	Qty	List
G147	MYP Agar HDx, 15 x 100mm plate	10/pk	CALL

Bacillus cereus Selective Agar, 18mL fill, 15 x 100mm, plate

A selective medium which detects small numbers of Bacillus cereus cells and spores in the presence of large numbers of other contaminating organisms.



Part No.	Description	Qty	List
G156	Bacillus Cereus Sel Agar HDx, 15 x 100mm plate	10/pk	CALL

MacConkey Agar, USP, for the culture and isolation of Gram negative bacteria, controls swarming of Proteus, 15 x 100mm Petri plate

For the isolation and differentiation of gram negative bacteria, especially the Enterobacteriaceae group.

Advanced formula controls the swarming of Proteus.

Optically clear polystyrene - For distortion free viewing.

Heavy-Duty - Reduces breakage during shipping.

Stacking rings - Guards against slippage when moving stacked plates.

Breathable Packaging - Packaged in sleeves of 10 plates in a "breathable" bag that prevents buildup of condensation and excess moisture.



Part No.	Description	Qty	List
G35	MacConkey Agar, USP HDx, 15 x 100mm plt	10/pk	CALL

Mannitol Salt Agar (MSA), USP, for Staphylococcus, 15 x 100mm Plate

For the selective isolation and differentiation of Staphylococcus spp. based on high salt content and mannitol fermentation. Differentiates between S. aureus and S. epidermidis.

Optically clear polystyrene - For distortion free viewing.

Heavy-Duty - Reduces breakage during shipping.

Stacking rings - Polystyrene Petri plates feature raised rings for stacking ability and prevents sliding.

Breathable Packaging - Packaged in sleeves of 10 plates in a "breathable" bag that prevents buildup of condensation and excess moisture.



Part No.	Description	Qty	List
G40	Mannitol Salt Agar, USP HDx, 15 x 100mm plate	10/pk	CALL

Tryptic Soy Agar (TSA), USP, 15 x 100mm Plate

For use as a non-selective, general growth medium for the isolation and cultivation of microorganisms (bacteria, yeast and fungi). Especially useful for performing colony counts. This medium is also recommended for use in the cultivation, storage, maintenance and transportation of pure cultures of microorganisms.

Optically clear polystyrene - For distortion free viewing.

Heavy-Duty - Reduces breakage during shipping.

Stacking rings - Polystyrene Petri plates feature raised rings for stacking ability and prevents sliding.

Breathable Packaging - Packaged in sleeves of 10 plates in a "breathable" bag that prevents buildup of condensation and excess moisture.



Part No.	Description	Qty	List
G60	TSA, USP HDx, 15 x 100mm plt	10/pk	CALL

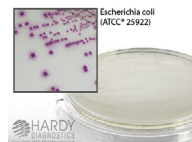


HardyCHROM™ ECC (E. coli and Coliform), Contact Plate with Friction Lid

HardyCHROM™ ECC is a chromogenic media recommended for the detection, differentiation and enumeration of Escherichia coli and other coliforms in food, water or environmental samples based on colony color. Each contact plate has a specified grid molded into the bottom of the plate for enumeration of microbial colonies growing on a variety of surfaces. This product is not intended to be used for the diagnosis of human disease.

Classical media entail complex and costly detection procedures and is oftentimes non-specific. With HardyCHROM™ Coliform EC a unique chromogenic mix within the media allows colonies of specific microorganisms to be recognizable by their color. E. coli can be identified as pink to violet colored colonies on the plate, while other coliform bacteria will appear as turquoise colonies. Organisms other than coliforms or E. coli (including approximately 4% of E. coli strains and most O157 strains) will appear as white or colorless colonies.

This media is to be stored and incubated in the dark. If you have a light in your refrigerator, incubator or you leave the media exposed to light on the bench top, Hardy Diagnostics offers free Blok-Boxes. Blok-Box is a reusable cardboard box that holds one sleeve of ten petri plates.



Part No.	Description	Qty	List
P17	HardyCHROM ECC Contact HDx, 15 x 65mm Contct Plt	10/pk	CALL

R2A Agar, 400mL, 16oz. Glass Bottle

For the detection of heterotrophic bacteria in water, by membrane filtration technique.

Part No.	Description	Qty	List
U354	R2A Agar, 400mL HDx, 16oz. gls btl	12/pk	\$193.73

Tryptic Soy Agar (TSA) w/Lecithin & Tween® 80, USP, Contact Plate w/Tap-Tight™ Friction Lid

Tryptic Soy Agar (TSA) with Lecithin and Tween®, USP is recommended for use as a general growth medium for establishing microbiological trends, alerts and action levels in biologically controlled environments.

New Tap tight™ Locking Lids - Simply tap the contact plate lid to secure it into place.

Molded Grid - Each plate has a grid molded into the bottom of the plate to aid in the counting of microorganisms.

Certificates of Analysis - Available with each order!



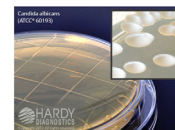
Part No.	Description	Qty	List
P34	TSA w/Lec & Tw, USP HDx, 15 x 65mm Contct Plt	10/pk	CALL

Sabdex (Sabouraud Dextrose) Agar, Contact Plate with Tap-Tight™ Friction Lid, for Surface Testing

For the cultivation of fungi (yeast and mold) from environmental surfaces.

New Tap tight™ Locking Lids - Simply tap the contact plate lid to secure it into place.

Molded Grid - Each plate has a grid molded into the bottom of the plate to aid in the counting of microorganisms.



Part No.	Description	Qty	List
P36	Sabdex Agar HDx, 15 x 65mm Contct Plt	10/pk	CALL

Tryptic Soy Broth (TSB) with Lecithin & Tween® 80, USP, 90mL Fill, 236mL Glass Wide Mouth Jar

Tryptic Soy Broth (TSB) with Lecithin and Tween® 80 is recommended for the cultivation of a wide variety of fastidious and nonfastidious microorganisms from nonclinical specimens, when the neutralization of disinfectants is desired. This medium can also be used for sterility testing using filters and to test the microbial content of water.

This product is not intended to be used for the diagnosis of human disease.

Crystal-Clear - A crystal clear glass construction provides complete visibility.

Streamlined Design - Features a streamlined design with no handle, making it easier to store and clean.

Leak-Proof - Easy-to-remove, perforated shrink wrap ensures product integrity



Part No.	Description	Qty	List
U134G	TSB w/L&T, USP, 90mL HDx, 180mL WM Jar	12/pk	CALL

Tryptic Soy Agar (TSA) with Lecithin and Tween® 80, 400mL Fill, 500mL Polycarbonate Bottle

Hardy Diagnostics Tryptic Soy Agar (TSA) with Lecithin and Tween® 80 is recommended for use in the cultivation of microorganisms.



Part No.	Description	Qty	List
U174	TSA w/Lec & Tween, 400mL HDx, 500mL PC bottle	10/pk	\$169.90

Sabdex (Sabouraud Dextrose) Agar, USP, 500mL Polycarbonate Bottle

For the cultivation of fungi.



Part No.	Description	Qty	List
U353	Sabdex Agar, USP, 500mL HDx, 500mL PC Bottle	10/pk	CALL

SabDex (Sabouraud Dextrose) Agar, USP, for Cultivation of Yeast and Fungi, 15 x 100mm Plate

Sabouraud Dextrose Agar is recommended for the isolation, cultivation and maintenance of non-pathogenic and pathogenic species of fungi and yeasts and meet the harmonized USP/EP/JP standards for the microbial examination of non sterile products.

Optically clear polystyrene - For distortion free viewing.

Heavy-Duty - Reduces breakage during shipping.

Stacking rings - Polystyrene Petri plates feature raised rings for stacking ability and prevents sliding.

Breathable Packaging - Packaged in sleeves of 10 plates in a "breathable" bag that prevents buildup of condensation and excess moisture.



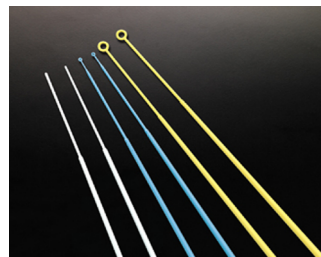
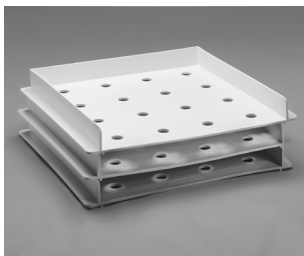
Part No.	Description	Qty	List
W70	Sabdex Agar, USP HDx, 15 x 100mm Plate	10/pk	CALL

Time for a change with your incubator?

See pages 89 to 90 and if you don't see a model which suits your current needs, contact your sales representative.



Don't forget your media accessories!



LIQUID HANDLING

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With such a wide selection of products from multiple manufacturers, not all options are listed here. If you do not see a product which meets the specifications you need, please feel free to contact us.

BOTTLE TOP DISPENSERS

Dispensette® S Bottletop Dispenser

The Dispensette® S bottletop dispensers build on the 50 year history of BRAND® dispensing expertise. Continual upgrades makes this the safest and most convenient ever, while retaining the features making the Dispensette® the world's favorite bottletop dispenser. The "floating piston" design of the Dispensette® S forms a zero-wear sealing system with outstanding sliding properties. Optimized flow channels make dispensing and priming even easier – particularly in instruments with large volumes.

Features:

- Simple to mount discharge tube available with or without integrated recirculation valve.
- Designed without additional sealing rings for ease of cleaning and maintenance.
- Replaceable discharge valve with safety valve.
- Olive-shaped filling valve for firmer attachment of filling tubes.
- Improved flow technology results in faster priming.
- Scalloped track for secure volume setting on analog dispensers.

The Dispensette® S bottletop dispenser is supplied with: discharge tube, valve mounting/calibration tool, polypropylene adapters, telescoping filling tube, recirculation tube (optional), performance certificate, operating manual and one year warranty.

w/ Recirculation Valve



Part No.	Volume mL	Increments mL	A* ≤ ±		CV* ≤		List
			%	µL	%	µL	
P210-998	1-10	0.2	0.5	50	0.1	10	\$747.50
P212-000	2.5-25	0.5	0.5	250	0.1	25	\$1033.50

Dispensette® S Organic Bottletop Dispenser

- Simple to mount discharge tube available with or without integrated recirculation valve.
- Designed without additional sealing rings for ease of cleaning and maintenance.
- Replaceable discharge valve with safety valve.
- Olive-shaped filling valve for firmer attachment of filling tubes.
- Improved flow technology results in faster priming.
- Scalloped track for secure volume setting on analog dispensers.

w/ Recirculation Valve



Part No.	Volume mL	Increments mL	A* ≤ ±		CV* ≤		List
			%	µL	%	µL	
<i>Digital Easy Calibration™</i>							
P212-040	0.5-5	0.02	0.5	25	0.0	5	\$949.00
<i>Analog-adjustable</i>							
P212-026	0.5-5	0.1	0.5	25	0.1	5	\$823.88
P212-028	1-10	0.2	0.5	50	0.1	10	\$823.88

seripettor® Bottletop Dispenser

The seripettor® is an economical wiping seal dispenser suitable for many commonly used reagents in biological, clinical, medical and chemical laboratories. Buffers, bases, culture media, even sodium azide solutions can all be dispensed easily and precisely. Sterile dispensing of media or agar can be performed with additional accessories. It simplifies dispensing with its notched volume selector for quick and exact volume adjustment. It also features a spring-driven refill function for semi-automatic operation and the innovative design of the seripettor permits simple disassembly and rapid replacement of wearing parts, extending instrument life.

The seripettor® bottletop dispenser is supplied with: spare dispensing cartridge, discharge tube, 250mm filling tube, three PP adapters (45/38mm, 45/33mm and 45/S40mm), operating manual and one-year warranty.



Part No.	Volume mL	Subdivision mL	A* ≤ ± %	CV* ≤ %	List
P212-052	1-10	0.2	1.2	0.2	\$214.50
P212-053	2.5-25	0.5	1.2	0.2	\$271.38



Jade Bottle Top Dispenser with Recirculation Valve

Dispense a wide range of reagents with precision and accuracy using the Jade Bottle Top Dispenser. It features a recirculation valve that redirects liquid back into the bottle without the loss of reagent. The Jade operates with a smooth plunger movement for bubble-free dispensing and effortless performance even under demanding laboratory conditions.

Piston:	PTFE & ETP
Cylinder:	Borosilicate Glass
Volume Adjustment Knob:	PP. 180° Rotation
Valve Housing:	PFA
Re-Circulation Valve Housing:	PFA
Valve Assembly:	Borosilicate Glass Ball & Seat
Discharge Assembly:	PTFE
Delivery Tube:	FEP
Inlet Tube:	FEP
Calibration:	Individually calibrated and certified.
Accuracy & Reproducibility:	In-lab easy calibration by the user is also possible
Compatibility:	Excellent compatibility with all reagents except HF



Part No.	Volume Range	Increment	Accuracy	CV	List
D880-000	0.25 to 2.5mL	0.05mL	0.6 ±% (0.015±mL)	0.2± % (0.005±mL)	\$345.36
D880-001	0.5 to 5mL	0.1mL	0.6 ±% (0.030±mL)	0.2± % (0.010±mL)	\$345.36
D880-002	1 to 10mL	0.2mL	0.6 ±% (0.060±mL)	0.2± % (0.020±mL)	\$345.36
D880-003	2.5 to 30mL	0.5mL	0.6 ±% (0.180±mL)	0.2± % (0.060±mL)	\$458.76
D880-004	5 to 60mL	1.0mL	0.6 ±% (0.360±mL)	0.2± % (0.120±mL)	\$458.76
D880-005	10 to 100mL	20.0mL	0.6 ±% (0.600±mL)	0.2± % (0.200±mL)	\$551.55

Sapphire Bottle Top Dispenser with Dual Inlet Technology

Save time and increase lab productivity using the Sapphire Bottle Top Dispenser. This convenient dispenser uses a dual valve technology that allows you to simply rinse and refill your bottle—without dismounting the dispenser! Featuring functionality, user-friendliness and performance. The Sapphire Bottle Top Dispenser operates in four modes: Dilution, Rinsing, Dual Liquid Handling and Re-circulation.

Piston:	PTFE & ETP
Cylinder:	Borosilicate Glass
Volume Adjustment Knob:	PP. 180° Rotation
Valve Housing:	PFA
Re-Circulation Valve Housing:	PFA
Valve Assembly:	Borosilicate Glass Ball & Seat
Discharge Assembly:	PTFE
Delivery Tube:	FEP
Inlet Tube:	FEP
Calibration:	Individually calibrated and certified.
Accuracy & Reproducibility:	In-lab easy calibration by the user is also possible.
Compatibility:	Excellent compatibility with all reagents except HF



Part No.	Volume Range	Increment	Accuracy	CV	List
D880-010	0.25 to 2.5mL	0.05mL	0.6 ±% (0.015±mL)	0.2± % (0.005±mL)	\$489.69
D880-011	0.5 to 5mL	0.1mL	0.6 ±% (0.030±mL)	0.2± % (0.010±mL)	\$489.69
D880-012	1 to 10mL	0.2mL	0.6 ±% (0.060±mL)	0.2± % (0.020±mL)	\$489.69
D880-013	2.5 to 30mL	0.5mL	0.6 ±% (0.180±mL)	0.2± % (0.060±mL)	\$654.64
D880-014	5 to 60mL	1.0mL	0.6 ±% (0.360±mL)	0.2± % (0.120±mL)	\$654.64
D880-015	10 to 100mL	20.0mL	0.6 ±% (0.600±mL)	0.2± % (0.200±mL)	\$768.04

BURETTES

Buret Class A w/ PTFE Stopcock

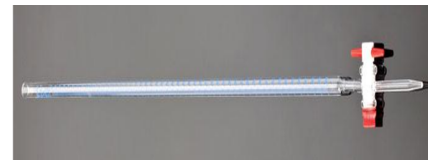
Made from precision, uniform Schott DURAN® true-bore tubing to ensure the stipulated capacity tolerances. These burets feature durable, permanent markings, fine, sharp lines and large, easy-to-read numbers. Supplied with PTFE stopcocks to eliminate freezing, lubricant contamination and to provide a precision fit within the barrel.



Part No.	Capacity / Dimensions	Qty	List
B115-003	10mL, 9 x 510mm	1/ea	\$44.18
B115-004	25mL, 12 x 550mm	1/ea	\$44.18
B115-005	50mL, 13 x 758mm	1/ea	\$48.36
B115-006	100mL, 17 x 775mm	1/ea	\$56.64

Burettes, Class A, with Straight Bore PTFE Key Stopcock, Batch Certified

Class A, ASTM E-287, meets USP standards and is batch certified. Waiting time of 30 seconds. Manufactured from precision bore tubing and calibrated To Deliver (TD, Ex) on computer-controlled machines. Includes PTFE straight bore stopcock.



Part No.	Capacity (mL)	Grad Interval	Tolerance (±mL)	Qty	List
B275-032	10	0.05	0.02	1/ea	\$112.66
B275-033	25	0.10	0.03	1/ea	\$120.45
B275-034	50	0.10	0.05	1/ea	\$128.97

Automatic Burette Glass, Class A Individually Certified

Self-zeroing burette is mounted on a glass bottle. Includes a PTFE needle valve stopcock, intermediate stopcock and rubber bellows. Class A, ASTM E-287, meets USP standards, individually serialized and certified. Includes Schellbach backing for easy reading of liquid levels. With amber graduations. Manufactured from precision bore tubing and calibrated To Deliver (TD, Ex) on computer-controlled machines.

Part No.	Capacity	Bottle Capacity	Qty	List
B275-039	10mL	500mL	1/cs	\$311.99
B275-040	25mL	2000mL	1/cs	\$413.41
B275-041	50mL	2000mL	1/cs	\$420.18



Class A Serialized and Certified Reservoir Fill Automatic Zero Burets with PTFE Stopcock

KIMAX® buret is ideal for repeat titrations requiring traceable volumetric accuracy.

- Supplied with a Certificate of Graduation Accuracy.
- Precision ground tips assure uniform outflow.
- Permanently marked with an individual serial number and traceable to NIST standards.
- Self-zeroing.
- Filled through a self-lubricating PTFE stopcock plug.
- Filling tube and overflow tube at the top of the buret accept 1/4" ID flexible tubing.
- Easy-to-read durable black enamel scale.
- Designed from ASTM E287, Class A requirements.
- Manufactured to the specifications found in ASTM E694.
- Calibrated to the accuracy requirements found in ASTM Specification E542.
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements.



Part No.	Capacity (mL)	Graduation Intervals (mL)	Tolerance (mL)	Overall Length (mm)	Qty	List
B215-025	10	0.05	±0.02	520	1/ea	\$345.16
B215-026	25	0.10	±0.03	580	1/ea	\$345.42
B215-027	50	0.10	±0.05	740	1/ea	\$356.84
B215-028	100	0.20	±0.10	770	1/ea	\$415.16



Automatic Self Zeroing Burettes Class A

Accurate and Economical Liquid Dispensing

Avoid outside contamination with this highly accurate closed system.

Borosilicate glass burettes have white 0.1mL graduations and are mounted to a high-density polyethylene screw cap.

Squeezing the flexible polyethylene bottle forces liquid into the burette.

Built in overflow automatically drains excess liquid back into reservoir.

Glass stopcock has a 2mm bore.

Large, stable plastic base can be detached from reservoir.

Accuracy of burette is within 1% of total volume; graduation accuracy is Class A.



Part No.	Burette Cap.	Reservoir Cap.	Base Diameter	Burette Height	Qty	List
M441-305	10mL	500mL	11.8cm (4 ⁵ / ₈ "	47cm (18 ¹ / ₂ "	1/ea	\$327.60
M441-306	25mL	500mL	11.8cm (4 ⁵ / ₈ "	60cm (23 ¹ / ₂ "	1/ea	\$380.10
M441-307	10mL	1000mL	13.7cm (5 ³ / ₈ "	47cm (18 ¹ / ₂ "	1/ea	\$337.95
M441-308	25mL	1000mL	13.7cm (5 ³ / ₈ "	60cm (23 ¹ / ₂ "	1/ea	\$390.38

Automatic Burettes Self Zeroing Glass Burettes Class B

These self-zeroing glass burettes have easy to read blue graduations against a white background.

Delivery end is fitted into a plastic push button stopcock which permits drop by drop delivery.

Small screw clamp adjusts drop speed as needed for titration.

Polyethylene filling tube extends from the top of the burette into the bottle reservoir.

Bottle, screw cap and round base are polyethylene plastic.

Graduation accuracy is Class B.



Part No.	Burette Cap.	Bottle Diameter	Divisions	Reservoir	Qty	List
M441-309	10mL	7.62cm (3")	1/20	500mL	1/ea	\$441.00
M441-310	15mL	7.62cm (3")	1/10	500mL	1/ea	\$405.25
M441-311	25mL	7.62cm (3")	1/10	1000mL	1/ea	\$450.92
M441-312	50mL	7.62cm (3")	1/10	1000mL	1/ea	\$520.50

Burkle Titrating Burette Automatic

This automatic titrating burette is a universal aid in the laboratory, electroplating industry, water treatment plants, for field analyses and numerous other applications. Available in 5 sizes from 5mL to 50mL.

Automatic Titrating Burette Prominent features include:

- Measured "to deliver"
- Burette made of Schott graduated borosilicate glass with blue ring graduations and Schellbach stripe for easy read measurements
- Graduations in accordance with Category B (Tolerances according to DIN ISO 385)
- Exact dispensing of precise discharge jet or drop via the micro screw
- Left or right hand operation for ease of use
- Sturdy stand for support
- 1 liter low density polyethylene (LDPE) chemically resistant bottle



Part No.	Capacity	Division	Precisions mL	Height	Qty	List
M461-150	5mL	0.05mL	+/- 0.015	48cm	1/ea	\$209.12
M461-151	10mL	0.05mL	+/- 0.030	57cm	1/ea	\$209.12
M461-152	15mL	0.10mL	+/- 0.045	49cm	1/ea	\$209.12
M461-153	25mL	0.10mL	+/- 0.045	61cm	1/ea	\$209.12
M461-154	50mL	0.10mL	+/- 0.045	87cm	1/ea	\$251.67



**Ask us about AMK Glass Automatic
Self-Zero
Burette options!**



Liquid Handling

Automatic Burettes, Borosilicate Glass, Class A, Individually Certified

Self-zeroing burette mounts on a glass bottle. Includes a PTFE needle valve stopcock, intermediate stopcock and rubber bellows.

Class A, ASTM E-287, meets USP standards, individually serialized and certified. Includes Schellbach backing for easy reading of liquid levels. With amber graduations. Manufactured from precision bore tubing and calibrated To Deliver (TD, Ex) on computer-controlled machines.

Part No.	Capacity	Grad. Interval	Tolerance (\pm mL)	Bottle Cap	Qty	List
B725-039	10mL	0.05mL	0.02	500mL	1/ea	\$311.99
B725-040	25mL	0.10mL	0.03	2000mL	1/ea	\$413.41
B725-041	50mL	0.10mL	0.05	2000mL	1/ea	\$420.18



Automatic Burettes, Borosilicate Glass, Class A, Individually Certified

Self-zeroing burette mounts on a glass bottle. Includes a PTFE needle valve stopcock, intermediate stopcock and rubber bellows.

Class A, ASTM E-287, meets USP standards, individually serialized and certified. Includes Schellbach backing for easy reading of liquid levels. With amber graduations. Manufactured from precision bore tubing and calibrated To Deliver (TD, Ex) on computer-controlled machines.

Glass bottles with ground glass joints are sold separately. 500mL bottle size is compatible with the 10mL automatic burette. 2000mL bottle size is compatible with the 25mL and 50mL automatic burettes.

Part No.	Description	Qty	List
B725-124	Bottle only for Automatic Burettes, 500mL	1/ea	\$47.50
B725-125	Bottle only for Automatic Burettes, 2000mL	1/ea	\$92.50



Part No.	Capacity	Grad. Interval	Tolerance (\pm mL)	Bottle Capacity	Qty	List
B725-121	10mL	0.05mL	0.02	500mL	1/ea	\$377.13
B725-122	25mL	0.10mL	0.03	2000mL	1/ea	\$480.00
B725-123	50mL	0.10mL	0.05	2000mL	1/ea	\$488.90

Automatic Burets with Bottle

KIMAX[®] precision bore automatic burets are used in applications requiring the highest degree of precision and accuracy for volumetric analysis. These are ideal for repeat titrations requiring traceable volumetric accuracy or when the titrant should not be handled.

- Packed complete with a reservoir bottle, U-shaped drying tube, vented connecting tube, rubber squeeze bulb, # 1 single-holed rubber stopper, PTFE stopcock plug and 1/4 inch ID rubber tubing
- Precision ground tips assure uniform outflow
- Supplied with a chemically-resistant, self-lubricating PTFE stopcock plug
- Permanently marked with an individual serial number and traceable to NIST Standards
- Supplied with a Certificate of Graduation Accuracy
- Easy-to-read durable black enamel scale
- Replacement 2mm bore size stopcock plug is G535-728
- Manufactured to the specifications found in ASTM E694
- Calibrated to the accuracy requirements found in ASTM Specification E542
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part No.	Buret Capacity (mL)	Graduation Range (mL)	Graduation Intervals (mL)	Tolerance (mL)	Reservoir Capacity (mL)	Overall Length (mm)	Standard Taper Size Between Buret and Bottle	List
B215-040	10	0.5 to 10	0.05	\pm 0.02	1000	765	29	\$1023.40
B215-041	25	1.0 to 25	0.10	\pm 0.03	1000	858	29	\$1023.33
B215-043	50	1.5 to 50	0.10	\pm 0.05	2000	1045	34	\$1063.47
B215-042	100	3.0 to 100	0.20	\pm 0.10	2000	1090	34	\$1350.93



Burette Accessories

2-Prong Burette Clamp with Boss Head

Our deluxe line of 2-prong burette clamps are made of pressure die-cast zinc alloy and are chrome plated. Adjustable to hold up to 60mm O.D. burettes, these clamps feature a spring-type adjustment key. Boss head clamp can swing freely and is lockable at any angle up to 360° and can be used with rods up to 19mm.



Part No.	Description	Maximum Use Temperature	Qty	List
C222-006	Cork Coated Grips	60°C	1/ea	\$49.07
C222-020	PVC Coated Grips	80°C	1/ea	\$33.51
C222-022	Silicone Coated Grips	280°C	1/ea	\$34.74

Burette Clamp with Boss Head, Coated Jaws

Excellent for holding small objects. The jaws open from 15mm to 45mm (1/2" to 1 3/4"). The clamp attaches to rods up to 13mm (1/2") O.D. Jaws can be rotated and locked at any angle. Jaws are covered with PVC sleeves.



Part No.	Description	Qty	List
C222-023	Burette Clamp with Boss Head, Coated Jaws	1/ea	\$9.97

Burette Clamps

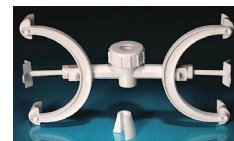
These clamps are constructed from aluminum and feature PVC covered spring jaws. Available in single and double versions, these clamps accept burettes up to 35mm O.D. and can be used with support rods up to 1/2" O.D.



Part No.	Description	Qty	List
C222-001	Burette Clamp, Single	1/ea	\$10.10
C222-002	Burette Clamp, Double	1/ea	\$14.06

Burette Clamps, PP

These polypropylene burette clamps are completely corrosion-proof. The spring-loaded jack in the middle provides a vice-like grip on the burette and prevents it from slipping. Two tapered wedges are included to ensure firm grip on 1/2" or 3/8" diameter rods.



Part No.	Description	Qty	List
B724-735	Burette Clamp, PP, Single	12/pk	\$76.92
B724-736	Burette Clamp, PP, Double	6/pk	\$78.73

Deluxe Burette Clamps

Deluxe burette clamps are die-cast from aluminum and feature black rubber sleeves for firm gripping of burettes. The adjustable clamps hold up to 30mm O.D. burettes which are held in place by the pressure created by the springs. For use with rods up to 19mm diameter.



Part No.	Description	Qty	List
C222-004	Deluxe Burette Clamp, Single	1/ea	\$27.57
C222-003	Deluxe Burette Clamp, Double	1/ea	\$31.90

Double Buret Clamp

VEE GEE®, Fits Micro to 100mL burets

Double Buret Clamps hold two burets from micro to 100mL size. Constructed of chrome plated, zinc-aluminum alloy for durability, the unit is simple to operate -- compress the scissor-like mechanism, insert buret and release. Numbers and graduations on burets are easy to read. Attach easily to support rods with a convenient hook clamp. Knob for tightening is on the front for easy access.



Part No.	Description	Qty	List
B115-012	Chrome Plated	1/ea	\$43.56
B115-013	White Finish	1/ea	\$15.96

Medium 2-Prong Single Adjust Nickel-Plated Zinc Clamp

Large grip adjustment range
2 prong construction
Single or dual adjust
Nickel-plated zinc

Designed to securely hold laboratory glassware and apparatus. Extension arm attaches clamp head securely and offers easy positioning in the deepest fume hoods. Clamps are constructed with round extension arms, which allow the clamps to be rotated 360°. Extension arms also allow placement of apparatus at various distances from lab-frames without compromising the integrity of your experiment. Supplied with non-slip vinyl sleeves and for temperatures above 100°C, fiberglass covers.

Material: Nickel-plated zinc construction
Prong Adjustment: 2-Prong Single Adjust
Min to Max Grip Size: 0 to 78mm (0 to 3.07")
Prong Width: 23mm (0.91")
Arm Length: 127mm (5")
Arm Diameter: 11mm (0.43")
Overall Length: 216mm (8.5")



Part No.	Description	Qty	List
C870-014	Medium 2-Prong Clamp	1/ea	\$40.50

Kartell Automatic Pipette/Burette Washing Set

High quality and high speed Kartell Automatic Pipette/Burette Washing Set. Solves the problem of washing pipettes up to 600mm long and Mohr burettes quickly and safely. Indispensable in the laboratory where radioactive, caustic and toxic materials are in use.

The PE rinser fills via the spray nozzle situated on the top rim. This eliminates backsiphoning as the water inlet is located above and away from any contaminated waters. Contaminated waters will syphon out totally, once the syphon point at the top of the rinser has been reached, via the large diameter drain situated at lowest point, before refilling automatically.

During washing the pipettes/burettes are housed in specially designed baskets which minimize breakages as it buffers the tips of pipettes against the soft PE base. Since soaking takes the longest time, two or three baskets of pipettes/ burettes can be soaking in their jars whilst another basket full is being washed in the rinser. On the bottom connection for outlet tubing (not included; Ø inner tube: 13mm).



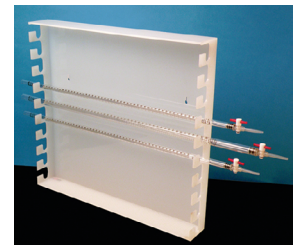
Description	Washer Jar	Jar	Basket	Complete Set
Height in.	25.5	25.5	26	25.5
Diameter in.	6.5	6.5	5	6.5

Part No.	Description	Qty	List
M460-034	Pipette/Burette Washer	1/ea	\$422.41
M460-035	Pipette/Burette Jar	1/ea	\$1295.91
M460-036	Pipette/Burette Basket	1/ea	\$129.53
M460-571	Auto pipette/Burette Washing Complete Kit	1/ea	\$724.09

Burette Rack, Wall Mounted, PP

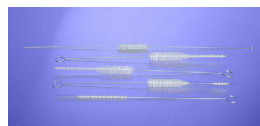
Wall mounted polypropylene burette rack safely organizes up to 10 glass or plastic burettes depending on length. Mounting screws not included.

Product Dimensions (l x w x h): 22 x 20 x 3"



Part No.	Description	Qty	List
T420-101	Wall Mounted Burette Rack	1/ea	\$391.59

Be sure to stop by page 374 to check out the pipette brushes!



CARBOYS**EZgrip® Carboys**

Designed to provide users with a highly versatile container that maximizes storage efficiency and ease of use. The distinctive rectangular shape saves valuable bench space. Larger handles on top of the container and molded grips in the base provide a full, secure grip to make lifting, handling and pouring easy. The optional wide neck allows the user to reach inside the carboy for easier cleaning. Carboy material and volume are clearly imprinted on the outside of the bottle as well as large, easy to read, metric graduation marks which are certified to $\pm 5\%$ accuracy.

Polypropylene carboys are made from a USP Class VI, FDA Grade, autoclavable material. The recommended autoclaving cycle is: 15 PSI for 20 minutes at 121°C.



Part No.	Size	Material	Spigot	Cap Size (mm)	Qty	List
C500-068	2.5L	PP	No	80	1	\$74.55
C500-069	5L	PP	Yes	80	1	\$81.58
C500-070	5L	PP	No	80	1	\$109.70
C500-071	10L	PP	Yes	80	1	\$113.65
C500-073	10L	PP	Yes	80	1	\$159.95
C500-074	20L	PP	No	80	1	\$159.23
C500-077	20L	PP	Yes	120	1	\$231.30
C500-075	20L	PP	No	120	1	\$159.23
C500-078	20L	PP	Yes	120	1	\$231.30
C500-079	40L	PP	No	120	1	\$258.80
C500-081	40L	PP	Yes	120	1	\$337.58
C500-082	75L	PP	No	120	1	\$579.03

Part No.	Size	Material	Spigot	Cap Size (mm)	Qty	List
C500-083	2.5L	CP	No	80	1	\$102.70
C500-084	5L	CP	No	80	1	\$144.50
C500-086	10L	CP	No	80	1	\$188.68
C500-088	20L	CP	No	120	1	\$417.00



Part No.	Size	Material	Spigot	Cap Size (mm)	Qty	List
C500-056	2.5L	HDPE	No	80	1	\$74.55
C500-057	5L	HDPE	No	80	1	\$81.58
C500-058	5L	HDPE	Yes	80	1	\$109.70
C500-059	10L	HDPE	No	80	1	\$150.83
C500-060	10L	HDPE	Yes	80	1	\$151.88
C500-061	20L	HDPE	No	80	1	\$151.63
C500-063	20L	HDPE	Yes	80	1	\$231.30
C500-062	20L	HDPE	No	120	1	\$151.63
C500-064	20L	HDPE	Yes	120	1	\$231.30
C500-065	40L	HDPE	No	120	1	\$258.80
C500-066	40L	HDPE	Yes	120	1	\$339.58
C500-067	75L	HDPE	No	120	1	\$381.00



Carboy Accessories

Drum and Carboy Funnels

Provides Optimum Flow

Large funnels are ideal for filling drums, barrels, tanks and carboys providing ample volume and fast flow. The two smaller sizes have a handle at the rim for added stability.

Molded of natural polypropylene plastic

Steam autoclavable at 121°C (250°F)



Part No.	Capacity	Height	Stem I.D. / O.D.	Top I.D. / O.D.	Stem Length	Qty	List
M440-188	2.1L	25.0cm	2.1cm / 5.1cm	19.8cm / 20.7cm	8.8cm	1/ea	\$30.83
M440-189	4.3L	30.9cm	2.3cm / 5.2cm	24.6cm / 26.0cm	9.1cm	1/ea	\$51.25
M440-190	14.1L	45.4cm	2.6cm / 5.1cm	31.8cm / 35.3cm	10.4cm	1/ea	\$99.17

Folding Carboy Spill Stand

Folding Carboy Spill Stand is designed for bench-top use with a folding feature to allow access to drawers and other materials below. Manufactured of 3/8" High Density Polyethylene with corrosion resistant stainless steel hardware, this heavy duty spill tray will hold carboys up to 15" in diameter.

Main spill containment tray has a 2 gallon capacity and bottom spill trough will hold up to 1/2 gallon.

Carboy or other dispensing product sits upon a 16 x 12" sliding tray that moves forward for dispensing and then slides back to allow bottom spill trough to fold up and out of the way. Spill containment is possible no matter where the tray is positioned.

Dimensions (D x W x H) Open: 21 x 16 x 13.5"

Dimensions (D x W x H) Folded: 16 x 16 x 10"



Part No.	Description	Qty	List
T420-127	Folding Spill Stand	1/ea	\$636.29

PIPETTES

Measuring (Mohr)

Measuring (Mohr) Pipettes Class A Individually Certified

These pipettes are made from borosilicate glass in compliance with ASTM specification E-1293, color-coded, individually serialized and certified, calibrated to deliver and printed with durable amber markings.

Part No.	Capacity	Color Code	Qty	List
P925-053	0.1mL	White	5/pk	\$112.51
P925-054	0.2mL	Black	5/pk	\$112.51
P925-055	1.0mL	Red	5/pk	\$110.77
P925-056	2.0mL	Green	5/pk	\$118.49
P925-057	5.0mL	Blue	5/pk	\$104.99
P925-058	10.0mL	Orange	5/pk	\$140.70
P925-059	25.0mL	White	5/pk	\$247.07



Sibata Measuring (MOHR) Pipettes

Part No.	Capacity	Tolerance	Color Code	Qty	List
P630-000	0.1mL	0.0025	White	12/pk	\$81.60
P630-001	0.2mL	0.004	Black	12/pk	\$80.27
P630-002	1mL	0.004	Yellow	12/pk	\$50.67
P630-003	1mL	0.01	Red	12/pk	\$50.67
P630-004	2mL	0.01	Green	12/pk	\$50.67
P630-005	5.0mL	0.02	Blue	12/pk	\$58.93
P630-006	10.0mL	0.03	Orange	12/pk	\$62.13
P630-007	25.0mL	0.05	White	12/pk	\$174.93



Sibata Measuring (MOHR) Pipettes

Part Number	Capacity	Grad. Intervals	Color Code	Qty	List
G535-650	10mL	0.10mL	Orange	12/cs	\$216.00
G535-653	0.1mL	0.01mL	White	12/cs	\$200.58
G535-654	1mL	0.10mL	Red	12/cs	\$173.84
G535-655	1mL	0.01mL	Yellow	12/cs	\$174.00
G535-648	2mL	0.10mL	Green	12/cs	\$187.67
G535-651	25mL	0.10mL	White	12/cs	\$292.09
G535-649	5mL	0.10mL	Blue	12/cs	\$187.67
G535-652	50mL	0.20mL	None	8/cs	\$462.63

Pasteur

Disposable Pasteur Pipettes

Intended for one-time use in the transfer of small volumes. Borosilicate pipettes are manufactured from 51 expansion, low extractable borosilicate glass conforming to USP Type 1 and ASTM E438, Type 1 Class B requirements. G537-934 and G537-935 are blood bank droppers which dispense 25 ±3 drops per 1mL of serum or red cells at 23°C when held at a 45° angle.

- G537-936 is a monstr-pette which has a tip ID of 1.5mm
- G538-462 is a wide tip Pasteur pipette featuring a 1.6mm tip
- G537-925, G537-928 and G537-923 are cotton-plugged
- Soda lime pipettes are manufactured from 90 expansion soda lime glass conforming to USP Type III requirements
- Borosilicate pipettes are manufactured from 51 expansion, low extractable borosilicate glass conforming to USP Type 1 and ASTM E438, Type 1, Class B requirements

Part No.	Name	Capacity (mL)	Body Length	Tip Length	Qty/pk	List/pk	Qty/cs	List/cs
G537-924	Soda Lime	2	3 1/2"	2 1/4"	250/pk	\$23.13	1000/cs	\$62.40
P101-103	Soda Lime	2	4"	5"	250/pk	\$21.16	1000/cs	\$55.07
G537-925*	Soda Lime	2	3 1/2"	2 1/4"	250/pk	\$46.73	1000/cs	\$157.58
G537-930*	Soda Lime	2	4"	5"	250/pk	\$52.41	1000/cs	\$176.74
G537-935**	Soda Lime	2-3	3 1/2"	2 1/4"	250/pk	\$20.16	1000/cs	\$67.98
G537-936***	Soda Lime	4.5	4"	1.75"	100/pk	\$22.82	800/cs	\$123.09
G538-974	Borosilicate	2	3 1/2"	2 1/4"	n/a	n/a	250/cs	\$29.86
G538-973	Borosilicate	2	4"	5"	n/a	n/a	250/cs	\$32.86
P101-101	Borosilicate	2	3 1/2"	2 1/4"	250/pk	\$35.15	1000/cs	\$94.81
P101-102	Borosilicate	2	4"	5"	250/pk	\$41.76	1000/cs	\$112.65
G537-923*	Borosilicate	2	3 1/2"	2 1/4"	250/pk	\$74.01	1000/cs	\$191.56
G537-928*	Borosilicate	2	4"	5"	250/pk	\$85.85	1000/cs	\$231.58
G537-934**	Borosilicate	2-3	3 1/2"	2 1/4"	n/a	n/a	1000/cs	\$83.28
G538-462	Borosilicate	2	3 1/2"	2 1/4"	250/pk	\$25.89	1000/cs	\$87.30

* Cotton-Plugged

** Blood Bank Dropper

*** Monstr-Pette

Need a fill up?
Grab your preference with one of the many pipette filling options which can be found on page 355.
If you don't see the one you are looking for, just give us a call!



Looking for storage instead?
Try checking out the different pipette rack solutions on page 357.



Plasteur® Plastic Pasteur Pipettes

- CELLTREAT Plasteur® Plastic Pasteur Pipettes offer the aspirating precision of a glass pipette and the safety benefits of plastic
 - Plasteur Pipettes are available in two sizes: 5.75 and 9" for easier handling and longer reach for working with larger vessels
 - Available in medical grade virgin polystyrene and polypropylene, which provides the chemical resistivity needed for many applications
- Polypropylene Plasteur Pipette** now available packaged in tab lock box - same standard packaging and quantity as glass Pasteur pipettes

- Available in sterile (gamma irradiated) and non-sterile pack options

Polypropylene Plasteur® Pipette addresses many of the concerns associated with glass:

Safety

- No more broken glass – more durable than standard glass pipettes
- Flexible plastic helps prevent glove or skin punctures

Efficiency

- Polypropylene Plasteur Pipette will not shatter, eliminating losses due to broken glass fragments in your work
- Can be autoclaved

Value

- Saves time and money - Use all the pipettes in the box, as compared to traditional glass Pasteur pipettes which are often damaged during shipping or handling
- Reduce cost by eliminating "sharps" disposal

Convenience

- Polypropylene Plasteur Pipettes are available packaged non-sterile in re-sealable bags with 100 pipettes per bag
- Also available packaged sterile (gamma irradiated) individually wrapped with 50 pipettes per bag or bulk packed with 25 pipettes per bag, so no autoclaving is necessary before use

Polystyrene Plasteur® Plastic Pasteur Pipettes

Polystyrene Plasteur® Plastic Pasteur Pipettes offer the aspirating precision of a glass pipette and the safety benefits of plastic.

- Available in two sizes: 5.75 and 9"
- Supplied sterile (gamma irradiated), so no autoclaving is necessary

Polypropylene

Part No.	Length	Graduated	Description	Sterile	Qty	List
L140-048	5.75"	No	Bulk Pk, Tab Lock Box	No	1000/cs	\$98.00
L140-050	5.75"	No	Bulk Pk	Yes	500/cs	\$102.00
L140-051	5.75"	No	Bulk Pk	No	500/cs	\$76.00
L140-054	9"	No	Indiv. Wrapped	Yes	200/cs	\$85.00
L140-055	9"	No	Bulk Pk, Tab Lock Box	No	1000/cs	\$105.00
L140-057	9"	No	Bulk Pk	Yes	500/cs	\$102.00
L140-058	9"	No	Bulk Pk	No	500/cs	\$76.00

Polystyrene

Part No.	Length	Graduated	Description	Sterile	Qty	List
L140-047	5.75"	No	Indiv. Wrapped	Yes	200/cs	\$63.00
L140-049	5.75"	No	Bulk Pk	Yes	500/cs	\$135.00
L140-053	9"	Yes	Indiv. Wrapped	Yes	200/cs	\$77.00
L140-056	9"	No	Bulk Pk	Yes	500/cs	\$149.00

Rubber

Part No.	Description	Sterile	Qty	List
L140-052	Aspirating Bulb For Use With Plasteur® Pipette	No	12/cs	\$18.00

Did you check out the
Bottle Top Dispensers
 on pages 334-335?



Volumetric

Pipettes - Volumetric - Class B - Reusable

The most commonly used volumetric pipette in general laboratory work.

- Color coded
- This unserialized pipette is supplied with a Certificate of Accuracy tied to the batch number printed on the glass
- Now packaged in smaller case quantities to better service general laboratory needs
- Designed from ASTM Specification E969, Class B requirements
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements

Part No.	Capacity	Tolerance	Band Color	Qty	List
G535-579	1mL	± 0.12mL	Blue	6/pk	\$122.31
G535-580	2mL	± 0.012mL	Orange	6/pk	\$82.49
G535-581	3mL	± 0.02mL	Black	6/pk	\$108.70
G535-582	5mL	± 0.02mL	White	6/pk	\$86.88
G535-583	10mL	± 0.04mL	Red	6/pk	\$105.84
G535-584	20mL	± 0.06mL	Yellow	3/pk	\$72.21
G535-585	25mL	± 0.06mL	Blue	3/pk	\$76.47
G535-586	50mL	± 0.10mL	Red	3/pk	\$101.56
G535-587	100mL	± 0.16mL	Yellow	3/pk	\$143.47

Pipettes - Volumetric - Class A - Unserialized Reusable To Deliver

- Calibrated To Deliver (TD)
- Color Coded
- This unserialized pipette is supplied with a Certificate of Accuracy tied to the batch number printed on the glass
- Now packaged in smaller case quantities to better service general laboratory needs
- Designed from ASTM Specification E969, Class A requirements
- 75mL size is designed from ASTM E542
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements

Part No.	Capacity	Tolerance	Band Color	Qty	List
G535-592	0.5mL	± 0.006mL	2 Black	6/pk	\$93.28
G535-588	1mL	± 0.006mL	Blue	6/pk	\$95.16
G535-610	2mL	± 0.006mL	Orange	6/pk	\$95.16
G535-608	2.5mL	± 0.006mL	N/A	6/pk	\$93.81
G535-602	3mL	± 0.01mL	Black	6/pk	\$94.72
G535-590	4mL	± 0.01mL	2 Red	6/pk	\$95.16
G535-591	5mL	± 0.01mL	White	6/pk	\$92.65
G535-605	6mL	± 0.01mL	2 Orange	6/pk	\$102.47
G535-609	7mL	± 0.01mL	2 Green	6/pk	\$115.67
G535-594	8mL	± 0.01mL	Blue	6/pk	\$116.09
G535-606	9mL	± 0.02mL	Black	6/pk	\$115.26
G535-597	10mL	± 0.02mL	Red	6/pk	\$104.42
G535-598	12mL	± 0.02mL	N/A	3/pk	\$68.47
G535-599	15mL	± 0.03mL	Green	3/pk	\$71.54
G535-589	20mL	± 0.03mL	Yellow	3/pk	\$77.49
G535-601	25mL	± 0.03mL	Blue	3/pk	\$81.23
G535-611	30mL	± 0.03mL	Black	3/pk	\$129.91
G535-603	40mL	± 0.05mL	White	3/pk	\$128.63
G535-604	50mL	± 0.05mL	Red	3/pk	\$108.95
G535-593	75mL	± 0.05mL	Green	3/pk	\$172.21
G535-607	100mL	± 0.08mL	Yellow	3/pk	\$154.42

Pipette - Volumetric Class A Batch Certified

These pipettes are made from borosilicate glass in compliance with ASTM specification E-969, color-coded. Batch certified, calibrated to deliver and printed with durable amber markings.

Part No.	Capacity	Color Code	Qty	List
P925-141	1mL	Blue	5/pk	\$46.28
P925-142	2mL	Orange	5/pk	\$46.28
P925-143	5mL	White	5/pk	\$46.28
P925-144	10mL	Red	5/pk	\$50.78
P925-145	20mL	Yellow	5/pk	\$75.45
P925-146	25mL	Blue	5/pk	\$80.68
P925-147	50mL	Red	5/pk	\$106.07
P925-148	100mL	Yellow	5/pk	\$150.37

Pipettes - Volumetric - Class A - Reusable To Contain and To Deliver

- Calibrated To Contain (TC) and To Deliver (TD) to Class A tolerances
- TC feature accommodates use with viscous liquids
- Color coded
- This unserialized pipette is supplied with a Certificate of Accuracy tied to the batch number printed on the glass
- Now packaged in smaller case quantities to better service general laboratory needs
- Designed and manufactured to ASTM E969 requirements
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements

Part No.	Capacity	Tolerance	Band Color	Qty	List
G535-595	1mL	± 0.006mL	Blue	6/pk	\$117.65
G535-621	2mL	± 0.006mL	Orange	6/pk	\$117.65
G535-623	3mL	± 0.01mL	Black	6/pk	\$144.77
G535-624	4mL	± 0.01mL	2 Red	6/pk	\$145.49
G535-614	5mL	± 0.01mL	White	6/pk	\$115.95
G535-615	6mL	± 0.01mL	2 Orange	6/pk	\$149.37
G535-616	7mL	± 0.01mL	2 Green	6/pk	\$150.70
G535-617	8mL	± 0.02mL	Blue	6/pk	\$149.37
G535-618	9mL	± 0.02mL	Black	6/pk	\$149.98
G535-596	10mL	± 0.02mL	Red	6/pk	\$143.77
G535-612	15mL	± 0.03mL	Green	3/pk	\$89.70
G535-622	20mL	± 0.03mL	Yellow	3/pk	\$102.02
G535-613	25mL	± 0.03mL	Blue	3/pk	\$102.02

Pipettes - Volumetric - Class A - Serialized and Certified

Volumetric pipettes are ideal for measuring accurate volumes of liquids.

- Letters "TD" on the pipette indicate to deliver
- Marked with large numerals on the bulb, indicating capacity
- Color-coded (ASTM E1273) for ease in sorting and selecting the correct pipette
- With a legend of permanent brown stain
- Autoclavable
- Supplied with a Certificate of Calibration tied to the serial number printed on the glass
- Now packaged in smaller case quantities to better service general laboratory needs
- Designed from ASTM Specification E969, Class A requirements
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements

Part No.	Capacity	Tolerance	Band Color	Qty	List
G535-640	0.5mL	± 0.006mL	2 Black	6/cs	\$127.86
G535-619	1mL	± 0.006mL	Blue	6/cs	\$128.40
G535-635	1.5mL	± 0.006mL	n/a	6/cs	\$153.00
G535-636	2mL	± 0.006mL	Orange	6/cs	\$164.70
G535-637	2.5mL	± 0.006mL	n/a	6/cs	\$173.44
G535-646	3mL	± 0.01mL	Black	6/cs	\$173.44
G535-647	4mL	± 0.01mL	2 Red	6/cs	\$186.12
G535-639	5mL	± 0.01mL	White	6/cs	\$209.00
G535-629	6mL	± 0.01mL	2 Orange	6/cs	\$216.21
G535-641	7mL	± 0.01mL	2 Green	6/cs	\$219.65
G535-630	8mL	± 0.01mL	Blue	6/cs	\$222.70
G535-631	9mL	± 0.02mL	Black	6/cs	\$222.61
G535-620	10mL	± 0.02mL	Red	6/cs	\$224.30
G535-634	12mL	± 0.02mL	n/a	3/cs	\$117.47
G535-643	15mL	± 0.03mL	Green	3/cs	\$126.26
G535-645	20mL	± 0.03mL	Yellow	3/cs	\$142.35
G535-626	25mL	± 0.03mL	Blue	3/cs	\$142.35
G535-638	30mL	± 0.03mL	Black	3/cs	\$146.74
G535-627	40mL	± 0.03mL	White	3/cs	\$163.98
G535-628	50mL	± 0.05mL	Red	3/cs	\$169.23
G535-644	75mL	± 0.05mL	Green	3/cs	\$195.65
G535-625	100mL	± 0.08mL	Yellow	3/cs	\$204.77

**Keep your workplace orderly with Drawer Organizers.
Check out page 402 for just a few options.**



Serological

Pipettes - Serological (Bulk Pack in Bag)

Large Volume 100mL Serological Pipette now available.

Improved longer length 25mL Serological Pipette with -10mL graduations (Part No. L140-350 only).

Bi-directional graduations are printed in bold easy-to-read black ink.

Color coded stripes and packaging enable quick volume identification.

All pipettes contain a premium material filter plug.

All serological pipettes are manufactured to the ASTM Standard Specification for Serological Pipettes E-934.

All serological pipettes are supplied sterile (gamma irradiated).

Part No.	Description	Grad. Increments	Color Code	Qty	List
L140-029	1mL, Sterile	1/100mL	Yellow	1000/cs	\$182.00
L140-030	2mL, Sterile	1/50mL	Green	800/cs	\$175.00
L140-031	5mL, Sterile	1/10mL	Blue	500/cs	\$128.00
L140-032	10mL, Sterile	1/10mL	Orange	500/cs	\$140.00
L140-035	25mL, Sterile	2/10mL	Red	200/cs	\$103.00
L140-036	50mL, Sterile	5/10mL	Purple	200/cs	\$276.00

Pipettes - Serological (Individual Paper/Plastic Wrap in Bag)

Color coded stripes and packaging enable quick volume identification.

All pipettes contain a premium material filter plug.

Bi-directional graduations are printed in bold easy-to-read black ink.

All serological pipettes are manufactured to the ASTM Standard Specification for Serological Pipettes E-934.

All serological pipettes are supplied sterile (gamma irradiated).

25mL (Part No. L140-333) and 50mL (Part No. L140-334) serological pipettes feature an anti-drip tip for accurate delivery.

Improved longer length 25mL Serological Pipette with -10mL graduations (Part No. L140-350 only).

Part No.	Description	Grad. Increments	Color Code	Qty	List
L140-329	1mL, Sterile	1/100mL	Yellow	500/cs	\$92.00
L140-330	2mL, Sterile	1/50mL	Green	500/cs	\$110.00
L140-331	5mL, Sterile	1/10mL	Blue	200/cs	\$49.00
L140-332	10mL, Sterile	1/10mL	Orange	200/cs	\$54.00
L140-333	25mL, Sterile	2/10mL	Red	200/cs	\$104.00
L140-334	50mL, Sterile	5/10mL	Purple	100/cs	\$152.00
L140-336	1mL, Sterile	1/100mL	Yellow	800/cs	\$154.00
L140-338	2mL, Sterile	1/50mL	Green	600/cs	\$148.00
L140-340	5mL, Sterile	1/10mL	Blue	200/cs	\$55.00
L140-343	10mL, Sterile	1/10mL	Orange	200/cs	\$59.00
L140-350	25mL, Sterile	2/10mL	Red	200/cs	\$112.00
L140-353	50mL, Sterile	5/10mL	Purple	90/cs	\$150.00
L140-346	100mL, Sterile	1mL	Pink	50/cs	\$180.00

Pipettes - Serological - Reusable with General Purpose Top

Color Coded.

Designed from ASTM Specification E1044, Style III requirements.

Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements.

Part No.	Capacity	Graduations	Tolerance	Color Code	Qty	List
G535-664	1mL	0.01	±0.02mL	Yellow	12/cs	\$163.16
G535-662	5mL	0.10	±0.04mL	Blue	12/cs	\$174.93
G535-663	10mL	0.10	±0.06mL	Orange	12/cs	\$174.54

Pipets - Serological - Reusable Wide Tip Opening with Plugging Top

For use with viscous liquids, slurries and suspensions.

Wide tip opening for fast delivery; Constricted top for cotton-plugging.

2mL size has a tip opening slightly smaller than the bore of the graduated portion, while the larger sizes have openings of approximately 3 mm.

Designed from ASTM Specification E1044, Style III requirements.

Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements.

Part No.	Capacity	Graduations	Tolerance	Color Band	Qty	List
G535-674	2mL	0.1mL	± 0.05mL	Green	12/cs	\$258.77
G535-675	5mL	0.1mL	± 0.10mL	Blue	12/cs	\$258.77
G535-676	10mL	0.1mL	± 0.10mL	Orange	12/cs	\$265.51
G535-677	25mL	0.1mL	± 0.20mL	White	6/cs	\$200.02

Pipettes - Serological - Reusable with Plugging Top

Color Coded.

The capacities of the 0.5mL pipettes are ideal for syphilis testing, including VDRL tests.

Top end has been tooled to accept cotton plugging on all sizes.

0.5mL pipettes are shorter than the usual serological pipette; because the top of the shorter instrument is better controlled, the process of transferring a liquid to a slide is made easier.

Most procedures require less than 0.5mL of serum.

Designed from ASTM Specification E1044, Style II requirements.

Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements.

Part No.	Capacity	Grad.	Tolerance	Color Band	Qty	List
G535-668	0.2mL	0.01mL	± 0.008mL	Black	6/cs	\$113.09
G535-669	0.5mL	0.05mL	± 0.01mL	2 Black	6/cs	\$114.72
G535-670	1mL	0.10mL	± 0.02mL	Red	12/cs	\$162.98
G535-672	1mL	0.01mL	± 0.02mL	Yellow	12/cs	\$161.72
G535-671	2mL	0.10mL	± 0.02mL	Green	6/cs	\$102.54
G535-673	2mL	0.01mL	± 0.02mL	2 White	6/cs	\$140.23
G535-665	5mL	0.10mL	± 0.04mL	Blue	12/cs	\$174.93
G535-666	10mL	0.10mL	± 0.06mL	Orange	12/cs	\$199.70
G535-667	25mL	0.10mL	± 0.10mL	White	12/cs	\$325.49

Pipettes - Serological - Glass Disposable TD - Sterile

Non-pyrogenic

Pipettes have a uniform pulled tip and are clean, plugged, sterile and ready for use

Calibrated To Deliver (TD) to the tip

Provided with "negative" graduations to increase the versatility of the pipette

Designed from ASTM Specification E714

Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements

Part No.	Capacity	Grad.	Tolerance	Color Band	Qty/pk	List/pk	Qty/cs	List/cs
P103-001	1mL	0.1mL	± 0.03mL	Red	250/pk	\$119.81	1000/cs	\$323.21
P103-006	1mL	0.01mL	± 0.03mL	Yellow	250/pk	\$190.33	1000/cs	\$609.05
P101-007	2mL	0.01mL	± 0.06mL	White	250/pk	\$136.75	500/cs	\$184.44
P101-009	10mL	0.1mL	± 0.30mL	Orange	250/pk	\$258.64	500/cs	\$348.86
P101-016	1mL	0.1mL	± 0.03mL	Red	200/pk	\$119.35	1000/cs	\$402.47
G538-062	1mL	0.01mL	± 0.03mL	Yellow	200/pk	\$106.49	1000/cs	\$359.09
P101-017	2mL	0.01mL	± 0.06mL	White	125/pk	\$81.76	500/cs	\$220.61
P101-018	5mL	0.1mL	± 0.15mL	Blue	100/pk	\$81.91	500/cs	\$276.21
P101-019	10mL	0.1mL	± 0.30mL	Orange	100/pk	\$92.28	500/cs	\$311.19
G538-060	1mL	0.01mL	± 0.03mL	Yellow	50/pk	\$50.28	500/cs	\$339.07
G538-061	2mL	0.01mL	± 0.06mL	White	50/pk	\$91.67	500/cs	\$618.21
G538-058	5mL	0.1mL	± 0.15mL	Blue	50/pk	\$80.64	500/cs	\$543.63
G538-059	10mL	0.1mL	± 0.30mL	Orange	50/pk	\$62.54	500/cs	\$408.88

Pipettes - Serological - Wide Tip Disposable TD - Sterile

These sterile, plugged, disposable pipettes are excellent for transferring viscous or suspended liquids.

Calibrated To Deliver (TD)

Non-pyrogenic

Color coded

Multi-packed in plastic bags to protect against contamination

Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements

Part No.	Capacity	Grad.	Tolerance	Color Band	Qty/pk	List/pk	Qty/cs	List/cs
P101-023	5mL	0.1mL	± 0.15mL	Blue	200/pk	\$262.43	400/cs	\$353.98
P103-010	10mL	0.1mL	± 0.30mL	Orange	200/pk	\$289.09	400/cs	\$389.93



Pipette Filler Bulbs can be found on page 354.



Pipettes - Serological - Disposable - Sterile - Shorties

These "Shorty" pipettes are ideal for use in tissue culture work and other procedures performed under a fume hood or in other confined areas.

The pipettes have "negative" graduations to increase the versatility of the pipette.

Calibrated To Deliver (TD).

Packaged in color-coded, paper/plastic individual wrap for speed and accuracy in selecting the correct size.

Overpacked in convenient, dispensing shelf-packs.

Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements.

Part No.	Capacity	Graduations	Tolerance	Color Band	Qty/pk	List/pk	Qty/cs	List/cs
G538-071	1mL	0.01mL	± 0.04mL	Yellow	200/pk	\$223.26	400/cs	\$301.14
P101-005	5mL	0.1mL	± 0.2mL	Blue	100/pk	\$259.18	200/cs	\$349.58
G538-070	10mL	0.2mL	± 0.4mL	Orange	100/pk	\$273.69	200/cs	\$369.16
G538-072	25mL	0.2mL	± 1.0mL	Green	100/pk	\$394.19	200/cs	\$531.70
G538-073	50mL	0.5mL	± 1.5mL	Purple	25/pk	\$257.09	50/cs	\$346.77
G538-067	1mL	0.01mL	± 0.04mL	Yellow	200/pk	\$244.52	400/cs	\$329.81
G538-065	5mL	0.1mL	± 0.2mL	Blue	100/pk	\$239.73	200/cs	\$323.35
G538-066	10mL	0.2mL	± 0.4mL	Orange	100/pk	\$293.36	200/cs	\$395.70
G538-068	25mL	0.2mL	± 1.0mL	Green	100/pk	\$425.11	200/cs	\$573.40
G538-069	50mL	0.5mL	± 1.5mL	Purple	25/pk	\$222.49	50/cs	\$300.09

Serological - Specialty

Pipettes - Serological - Open End

- Open End Serological Pipettes now available in 5mL and 10mL sizes
- Provide fast fill and release rates for viscous or high particulate solutions
- Supplied sterile (gamma irradiated) individually wrapped in bags or bulk packed

Part No.	Description	Sterile	Graduations	Color Code	Qty	List
L140-347	5mL, Indiv. Wrapped	Yes	Yes	Blue	200/cs	\$63.00
L140-033	5mL, Bulk Packed	Yes	Yes	Blue	500/cs	\$143.00
L140-348	10mL, Indiv. Wrapped	Yes	Yes	Orange	200/cs	\$66.00
L140-034	10mL, Bulk Packed	Yes	Yes	Orange	500/cs	\$152.00

Pipettes - Serological - Bacteriological/Milk

- Bacteriological/Milk Pipettes are manufactured to meet APHA requirements shown in Standard Methods for Examination of Dairy Products and ASTM E1043-00 (2010) Standard Specification for Pipettes, Milk and Cream Examination
- Supplied sterile (gamma irradiated) individually wrapped in bags or bulk packed

Part No.	Description	Grad. Increments	Color Code	Qty	List
L140-045	1.1mL Indiv. Wrapped, Sterile	-	Purple	250/cs	\$86.00
L140-040	1.1mL Bulk Packed, Sterile	50	Purple	500/cs	\$164.00
L140-046	2.2mL Indiv. Wrapped, Sterile	-	-	250/cs	\$92.00
L140-041	2.2mL Bulk Packed, Sterile	50	-	400/cs	\$170.00

Pipettes - Serological - Short & Wide Tip

- Compact design of short serological pipette provides ergonomic benefit
- Short Serological Pipettes available in 3 sizes: 5, 10 & 25mL
- 10mL Wide Tip Serological Pipette for viscous solutions – Wide Tip opening is 4x larger than standard 10mL pipet
- Bi-directional graduations are printed in bold easy-to-read black ink
- Color coded stripes and packaging enable quick volume identification
- All pipettes contain a premium material filter plug
- All short and wide tip serological pipettes are supplied sterile (gamma irradiated), individually wrapped in bags

Part No.	Description	Grad. Increments	Color Code	Qty	List
L140-341	5mL, Short	1/10mL	Blue	200/cs	\$68.00
L140-344	10mL, Short	1/10mL	Orange	200/cs	\$76.00
L140-345	10mL, Wide Tip	1/10mL	Orange	200/cs	\$70.00
L140-351	25mL, Short	2/10mL	Red	100/cs	\$72.00

Transfer

Transfer Pipettes - Disposable

Made of see-through low density polyethylene; will not shatter.

These all-in-one pipettes eliminate the hazard of broken glass and exposure to infectious materials. Inert to biological fluids and most acids. Can be sealed and refrigerated. They work well whenever there is a need for quick, safe transfer of fluids. Temperature resistant down to -196°C. Can be gas (EtO) sterilized.

- Can be used in liquid nitrogen
- Non toxic and inert
- No bulb to insert or remove
- Uniform drop size



Sterile						
Part No.	Length	Capacity	Bulb Draw	Inner pk	Qty	List
P220-001	6.3cm	1.2mL	0.9mL	1	4000/cs	\$553.83
P220-004	11.4cm	1.5mL	0.8mL	1	4000/cs	\$553.83
P220-007	8.7cm	1.7mL	0.9mL	1	4000/cs	\$553.83
P220-010	13.8cm	3mL	2.1mL	1	4000/cs	\$553.83
P220-014	15.5cm	4mL	3.1mL	1	4000/cs	\$553.83
P220-016	15.5cm	4mL	3.1mL	5	4000/cs	\$539.43
P220-013	15.5cm	4mL	3.1mL	10	4000/cs	\$494.50
P220-019	15cm	5mL	3.1mL	1	4000/cs	\$553.83
P220-021	15cm	5mL	3.1mL	5	4000/cs	\$539.43
P220-018	15cm	5mL	3.1mL	10	4000/cs	\$494.50
P220-024	15.5cm	5mL	1.9mL	1	4000/cs	\$579.40
P220-026	15.5cm	5mL	1.9mL	5	4000/cs	\$539.43
P220-023	15.5cm	5mL	1.9mL	10	4000/cs	\$472.15
P220-028	15.6cm	5mL	1.8mL	1	4000/cs	\$553.83
P220-031	14.5cm	5mL	1.8mL	1	4000/cs	\$553.83
P220-035	22.5cm	6mL	2.3mL	1	4000/cs	\$612.23
P220-037	22.5cm	6mL	2.3mL	5	4000/cs	\$539.43
P220-034	22.5cm	6mL	2.3mL	10	4000/cs	\$494.50
P220-040	15.5cm	7mL	3.2mL	1	4000/cs	\$553.83
P220-042	15.5cm	7mL	3.2mL	5	4000/cs	\$539.43
P220-039	15.5cm	7mL	3.2mL	10	4000/cs	\$494.50
P220-044	15cm	8mL	4.6mL	1	4000/cs	\$553.83

Non-Sterile / Graduated

Part No.	Length	Capacity	Bulb Draw	Inner pk	Qty/pk	List/pk	Qty/cs	List/cs
P220-003	11.4cm	1.5mL	0.8mL	Loose	n/a	n/a	5000/cs	\$250.00
P220-009	13.8cm	3mL	2.1mL	Loose	500/pk	\$36.76	5000/cs	\$250.00
P220-017	15cm	5mL	3.1mL	Loose	500/pk	\$36.74	5000/cs	\$250.00
P220-022	15.5cm	5mL	1.9mL	Loose	n/a	n/a	5000/cs	\$250.00
P220-027	15.6cm	5mL	1.8mL	Loose	n/a	n/a	5000/cs	\$250.00
P220-030	14.5cm	5mL	1.8mL	Loose	n/a	n/a	5000/cs	\$250.00
P220-038	15.5cm	7mL	3.2mL	Loose	500/pk	\$36.74	5000/cs	\$250.00

Non-Sterile / Non-Graduated

Part No.	Length	Capacity	Bulb Draw	Inner pk	Qty	List
P220-000	6.3cm	1.2mL	0.9mL	Loose	5000/cs	\$250.00
P220-006	8.7cm	1.7mL	0.9mL	Loose	5000/cs	\$250.00
P220-012	15.5cm	4mL	3.1mL	Loose	5000/cs	\$250.00
P220-033	22.5cm	6mL	2.3mL	Loose	5000/cs	\$257.93
P220-043	15cm	8mL	4.6mL	Loose	4000/cs	\$327.68

Pasteur Pipets

Non-toxic all-in-one pipettes are molded from unbreakable translucent low density polyethylene. Can be sealed and refrigerated. Available in sterile and non-sterile versions. Sterile pipettes are individually wrapped.



Part No.	Capacity	Length	Grad. Interval	Grad. Range	Qty	List
P925-047	1.0mL	150mm	0.25mL	0.25 - 1.0mL	500/pk	\$51.25
P925-048	1.0mL (Sterile)	150mm	0.25mL	0.25 - 1.0mL	500/pk	\$125.25
P925-049	3.0mL	155mm	0.5mL	0.5 - 3.0mL	500/pk	\$53.90
P925-050	3.0mL (Sterile)	155mm	0.5mL	0.5 - 3.0mL	500/pk	\$129.95



PIPETTORS

Transferpette® S Pipette

Perfect manual pipette for demanding laboratory scientists who prefer a traditional control layout. Offers robust yet lightweight construction, superior autoclavability, simple, one-handed operation, high degree of accuracy and precision and Easy Calibration™ technology for long lasting reliability. The single channel model is available in fixed volume and digital models in volume ranges from 0.1µL to 10mL. The multichannel model is available in 8- or 12-channels in volume ranges from 0.5µL to 300µL.

One-handed volume adjustment with brake to protect against accidental volume changes.

12.5mm piston stroke-length is shortest of all leading pipettes.

Easy Calibration™ technology ensures fast, easy, in-lab calibration adjustments without tools.

Four-digit volume display is always visible.

Accepts universal tips.

Completely and repeatedly autoclavable at 121°C/250°F (20 minutes).

Multichannel models have patented individually removable/replaceable tip cones for easy in-lab cleaning and service and V-rings for low-force tip mounting and ejection.

Single Channel pipettes are supplied with performance certificate, operating manual, shelf mount and three year warranty.



Transferpette® S - Adjustable Volume Single Channel Pipettes

Part No.	Model	Capacity	A* ≤ ± %	CV* ≤ %	Subdivision	Qty	List
P210-402	D-1	0.1-1µL	2	1.2	0.001µL	1/ea	\$555.75
P210-403	D-2.5	0.1-2.5µL	1.4	0.7	0.002µL	1/ea	\$505.38
P210-404	D-10	0.5-10µL	1	0.5	0.01µL	1/ea	\$505.38
P210-405	D-20	2-20µL**	0.8	0.4	0.02µL	1/ea	\$505.38
P210-406	D-50	5-50µL	0.8	0.3	0.05µL	1/ea	\$505.38
P210-407	D-100	10-100µL	0.6	0.2	0.1µL	1/ea	\$505.38
P210-408	D-200	20-200µL	0.6	0.2	0.2µL	1/ea	\$505.38
P210-409	D-1000	100-1000µL	0.6	0.2	1µL	1/ea	\$505.38
P210-410	D-5000	500-5000µL	0.6	0.2	5µL	1/ea	\$505.38
P210-411	D-10000	1000-10000µL	0.6	0.2	10µL	1/ea	\$505.38

Transferpette® S - Fixed Volume Single Channel Pipettes

Part No.	Model	Capacity	A* ≤ ± %	CV* ≤ %	Qty	List
P210-394	F-10	10µL	1	0.5	1/ea	\$174.23
P210-395	F-20	20µL**	0.8	0.4	1/ea	\$174.23
P210-396	F-25	25µL	0.8	0.4	1/ea	\$267.63
P210-397	F-50	50µL	0.8	0.4	1/ea	\$274.63
P210-398	F-100	100µL	0.6	0.2	1/ea	\$274.63
P210-399	F-200	200µL	0.6	0.2	1/ea	\$274.63
P210-400	F-500	500µL	0.6	0.2	1/ea	\$274.63
P210-401	F-1000	1000µL	0.6	0.2	1/ea	\$274.63

Transferpette® S Multichannel pipettes are supplied with performance certificate, operating manual, shelf mount, two tip boxes, reagent reservoir, pack of replacement v-rings and one year warranty.

Transferpette® S - Multichannel Pipettes - 8 Channel

Part No.	Capacity	A* ≤ ± %	CV* ≤ %	Subdivision	Qty	List
P210-009	0.5-10µL	1.6	1.0	0.01µL	1/ea	\$1235.00
P210-010	5-50µL	0.8	0.4	0.1µL	1/ea	\$1235.00
P210-011	10-100µL	0.8	0.3	0.2µL	1/ea	\$1235.00
P210-012	20-200µL	0.8	0.3	0.2µL	1/ea	\$1235.00
P210-013	30-300µL	0.6	0.3	0.5µL	1/ea	\$1235.00

Transferpette® S - Multichannel Pipettes - 12 Channel

Part No.	Capacity	A* ≤ ± %	CV* ≤ %	Subdivision	Qty	List
P210-014	0.5-10µL	1.6	1.0	0.01µL	1/ea	\$1524.25
P210-015	5-50µL	0.8	0.4	0.1µL	1/ea	\$1524.25
P210-016	10-100µL	0.8	0.3	0.2µL	1/ea	\$1524.25
P210-017	20-200µL	0.8	0.3	0.2µL	1/ea	\$1524.25
P210-018	30-300µL	0.6	0.3	0.5µL	1/ea	\$1524.25

A*=Accuracy, CV*=Coefficient of Variation

*The value of accuracy and coefficient of variation are final test values referring to the delivered nominal volume, instrument and distilled water at equilibrium with ambient temperature (20°C/68°F) and with smooth operation.

**For use only with 2-200µL pipette



Transferpette® S Single Channel Starter Sets

Supplied with three pipettes with performance certificates, operating manual, three shelf mounts, three filled Tip-Boxes with appropriate sized tips and three year warranty for each pipette.



Part No.	Starter Set	Includes Transferpette® S Models	Qty	List
P210-412	Micro	D-1, D-10, D-100	1/ea	\$1210.63
P210-413	Mid-Size	D-20, D-200, D-1000	1/ea	\$1210.63
P210-414	Macro	D-1000, D-5000, D-10000	1/ea	\$1210.63
P210-415	Standard	D-10, D-100, D-1000	1/ea	\$1210.63

NextPette Precision Pipettes

One handed volume adjustment; Volume lock; Easily visible, 4 digit display; Ergonomic, thumb shaped plunger button.



Part No.	Capacity	Inaccuracy	Imprecision	Tip Size	Qty	List
E400-424	0.1 to 1.0µl	± 20 to 2%	± 12 to 1.2%	10µl	1/pk	\$275.00
E400-425	0.5 to 10µl	± 3.8 to 0.5%	± 4 to 0.5%	10µl	1/pk	\$250.00
E400-426	2 to 20µl	± 3 to 0.8%	± 3 to 0.8%	200µl	1/pk	\$250.00
E400-427	10 to 100µl	± 1.5 to 0.8%	± 1.5 to 0.8%	200µl	1/pk	\$250.00
E400-428	20 to 200µl	± 1.2 to 0.6%	± 1.0 to 0.6%	200µl	1/pk	\$250.00
E400-429	00 to 1000µl	± 1.5 to 0.6%	± 1.0 to 0.6%	200µl	1/pk	\$250.00
E400-430	0.5 to 5mL	± 0.6 to 0.5%	± 0.6 to 0.5%	5mL	1/pk	\$275.00
E400-431	1 to 10mL	± 2.5 to 0.5%	± 2.0 to 0.5%	10mL	1/pk	\$275.00

Picus® & Picus® NxT Electronic Pipettes

Sartorius Picus® & Picus® NxT are the most sophisticated and ergonomic electronic pipettes on the market. These exceptionally compact and lightweight pipettes have been specially designed to ease the user's workload and to protect the user from repetitive strain injury (RSI).

The newest technology and fully electronic operation assure high accuracy and precision of results, regardless of user skill level. Picus® NxT provides distinct advantages for highly regulated laboratories.



Picus® & Picus® NxT

- Highest level of ergonomics provided by the uniquely low weight, light electronic tip ejection and comfortable handle design
- Extensive range of pipetting modes reduces the needed pipetting steps and speeds up work
- Electronic brake and piston control system provide outstanding accuracy and repeatability of pipetting results, independent of the user
- Intuitive user interface in five language options: English, French, German, Russian and Chinese, enables ease of use
- Adjustment wheel offers extremely fast volume setting and menu navigation
- Optiload enables perfect tip sealing for accurate delivery from each channel
- Safe-Cone Filters prevent the risk of contamination cost-effectively
- Microwell plate tracker guides the user to pipette into the correct wells
- Calibration adjustment in 1, 2 or 3 points

Picus® NxT

- Certificate of accredited 3-point calibration (per ISO 17025 and ISO 8655) delivered with the product at no extra charge
 - User programmable pipetting protocols enable the storage of three frequently needed pipetting workflows; easily activated when needed.
 - 2-level password protection for stored programs to prevent unauthorized changes (optional)
 - Pipette locking, e.g. in case of contamination, increases lab safety by disabling the pipette from use.
 - Service and calibration reminders help the users to remember important service dates.
 - Repeated blow-out helps to dispense the last droplets of e.g. viscous liquids
- Applications
- PCR and other DNA/RNA techniques
 - ELISA
 - Protein analysis
 - Cell culture
- Intended use
- Fully electronic liquid handling in the volume range of 0.2µl to 10mL.



Pipetting Modes

Pipetting:

Reverse Pipetting:

Manual Pipetting:

Multi-Dispensing:

Diluting:

Sequential Dispensing:

Multi-Aspiration:

Titrate:

Protocol*:

Advanced Functions

Tracker, Mixing, Counter,

Repeated Blow-out*

Tracker, Counter, Excess

Volume Adjustment

Repeated Blow-out*

Tracker, Excess Volume

Adjustment, Auto-Dispensing

Mixing, Repeated Blow-out*

Excess Volume Adjustment

Repeated Blow-out*

Fast Dispensing

All additional modes

Technical Specifications

Rechargeable battery: Li-Polymer with protection circuit

Charging time: Approx. 1 hour

Charger: Universal charger with EU, US | JPN, UK, CHN, AUS and KOR plugs

Weight: 100g (1-ch, 300µl)

160g (8-ch, 300µl)

Length: 210mm (1-ch, 300µl)

216mm (8-ch, 300µl)

Number of pipetting cycles: >1000

Volume range: 1-ch: 0.2-10 000µl

8- & 12-ch: 0.2-1200µl

Pipetting modes: Picus®: 8 + 6

Picus® NxT: 9 + 7

DC-motor concept: Electronic piston control

Electronic brake

Memory places: Picus®: 10

Picus® NxT: 3* + 10

Tip ejection: Electronic

Spring loaded tip cones: Overtload feature in multichannel models

Filters: Safe-Cone Filters in all models

>10µl

Autoclavable lower parts**: 121°C, 20 min, 1 bar

Charging Stands, available separately:

Charging Stand for 1 pipette,

Charging Carousel for 4 pipettes

Warranty: 2 years, possibility for 1 year extended

warranty

* Advanced function, Repeated Blow-out and pipetting mode, Protocol, are only available in Picus® NxT models.



Picus® NxT

* For Protocols

** Excluding 1200µl multichannel models

Part No.	Channels	Volume Range	Increment	Qty	List
B328-311	1	0.2-10µl	0.01µl	1/ea	\$1332.69
B328-312	1	5-120µl	0.10µl	1/ea	\$1332.69
B328-313	1	10-300µl	0.20µl	1/ea	\$1332.69
B328-314	1	50-1,000µl	1.00µl	1/ea	\$1332.69
B328-315	1	100-5,000µl	5.00µl	1/ea	\$1332.69
B328-316	1	500-10,000µl	10.00µl	1/ea	\$1332.69
B328-317	8	0.2-10µl	0.01µl	1/ea	\$2214.42
B328-321	12	0.2-10µl	0.01µl	1/ea	\$2732.69
B328-318	8	5-120µl	0.10µl	1/ea	\$2214.42
B328-322	12	5-120µl	0.10µl	1/ea	\$2732.69
B328-319	8	10-300µl	0.20µl	1/ea	\$2214.42
B328-323	12	10-300µl	0.20µl	1/ea	\$2732.69
B328-320	8	50-1,200µl	1.00µl	1/ea	\$2214.42
B328-324	12	50-1,200µl	1.00µl	1/ea	\$2732.69

Picus®

Part No.	Channels	Volume Range	Increment	Qty	List
B326-626	1	5-120µl	0.10µl	1/ea	\$1170.39
B326-627	1	10-300µl	0.20µl	1/ea	\$1170.39
B326-628	1	50-1,000µl	1.00µl	1/ea	\$1170.39
B326-629	1	100-5,000µl	5.00µl	1/ea	\$1170.39
B326-630	1	500-10,000µl	10.00µl	1/ea	\$1170.39
B326-631	8	0.2-10µl	0.01µl	1/ea	\$1935.39
B326-635	12	0.2-10µl	0.01µl	1/ea	\$2451.92
B326-632	8	5-120µl	0.10µl	1/ea	\$1935.39
B326-636	12	5-120µl	0.10µl	1/ea	\$2451.92
B326-633	8	10-300µl	0.20µl	1/ea	\$1935.39
B326-637	12	10-300µl	0.20µl	1/ea	\$2451.92
B326-634	8	50-1,200µl	1.00µl	1/ea	\$1935.39
B326-638	12	50-1,200µl	1.00µl	1/ea	\$2451.92

All pipettes are supplied with a universal charger (EU, UK, US | JPN, KOR, AUS and CHN plugs)

Pipette Accessories

Charging Stand for 1 Pipette

When the pipette is not in use, it should be stored in an upright position in order to avoid contamination from desks and benches. Sartorius offers a selection of pipette stands for both mechanical and electronic pipettes. The electronic pipettes are recommended to be stored and charged on a charging stand, whenever they are not in use. Charging Stand is for storing and charging one electronic pipette, Picus or eLINE®.



Part No.	Dimensions	Qty	List
B326-623	380 x 145 x 115mm	1/pk	\$282.69

Flip & Grip Pipette Holder/ Pipette Stand

A unique pipette holder that can stand on the bench top or it can be hung under a shelf to maximize your working space.

Holds: 12 Single Channel or 3 single & 3 Multi channel
 Benchtop Style: 332 x 193mm
 Under Shelf Style: 187 x 193mm
 Color: Blue



Part No.	Dimensions	Qty	List
M220-043	Blue	1/pk	\$112.00

Safety Pipette Fillers - 3 Valve

Made from all natural rubber the three valve pipette fillers are imported from Germany and will accommodate pipettes up to 50mL and feature a 1/4" diameter opening. This filler eliminates the need for dangerous mouth pipetting. They are available in red, black, blue, green and multi-colored.



Part No.	Description	Qty	List
P333-039	Red, 3 Valve	1/ea	\$18.08
P150-108	Black, 3 Valve	1/ea	\$17.83
P150-109	Blue, 3 Valve	1/ea	\$18.08
P150-102	Green, 3 Valve	1/ea	CALL
P333-037	Multi-colored, 3 Valve	1/ea	\$24.83



Flip Style Pipette Filler

The patented flip style pipette filler is also made of natural rubber and can accommodate pipettes up to 50mL with its 1/4" diameter opening featuring a two valve system with a removable top valve for easy cleaning and one handed use. The flip model is available in red, black, blue, green and yellow.



Part No.	Description	Qty	List
P150-103	Red	1/ea	\$20.08
P150-104	Black	1/ea	\$20.08
P150-105	Blue	1/ea	\$20.08
P150-106	Green	1/ea	\$20.08
P150-107	Yellow	1/ea	\$20.08

Silicone Pipette Fillers

The three valve pipette filler is also available in chemically resistant silicone rubber. This bulb also accommodates pipettes up to 50mL and has a 1/4" diameter opening.

Part No.	Description	Qty	List
P150-101	Red	1/ea	\$27.64
P150-100	Black	1/ea	\$27.64



Safety Bulb Pipette Filler (Natural Rubber)

Features a white ABS attachment containing a silicone conical adapter that seals around pipettes without twisting. Pipette does not contact hard plastic, which reduces the risk of cracking and chipping.



Part No.	Dimensions	Qty/ea	List/ea	Qty/pk	List/pk
P100-109	Natural Rubber	1/pk	\$19.55	3/pk	31.53/pk



Rubber Pipette Filler (Natural Rubber)

This rubber pipette filler is designed for efficient one-handed operation. Control air evacuation, liquid uptake and liquid dispensing with three valves, each containing a chemical-resistant stainless steel ball.



Part No.	Dimensions	Qty	List
P100-101	Red	1/ea	\$8.84

Automatic Pipette/Burette Washing Set

Solves the problem of washing pipettes up to 600mm long and Mohr burettes quickly and safely. Indispensable in the laboratory where radioactive, caustic and toxic materials are in use.



Part No.	Dimensions	Qty	List
M460-571	25.5 (H) x 6.5" (D)	1/ea	\$724.09

Pipette Pumps

Good quality pipettors designed for easy and precise pipetting. Pumps feature a lever for quick release and forward or backward wheel movement. The soft elastic chuck has a threaded collar to tightly grip glass or plastic pipettes. Easy to clean.



Part No.	Capacity	Color	Qty	List
P925-099	2mL	Blue	12/cs	\$170.62
P925-100	10mL	Green	12/cs	\$190.67
P925-101	25mL	Red	12/cs	\$200.50

Pipette Filling Device

Fill any standard pipette using this efficient and reliable electronic instrument. It is designed for ease and comfort to suit various types of liquid handling needs in laboratories.

Features include LED charging indicators, adjustable pump speed, comfort grip and multiple housing color combinations. A universal silicon collet is provided to accept all standard pipettes up to 100mL. Internal knurlings on the collet hold the pipette firmly.

An in-line membrane filter (0.2 micron filter included) prevents aerosol contamination and prevents liquid from entering the equipment by accident.

Ni-MH 3.6V batteries are used in combination with a low power consumption circuit and vacuum/pressure pump. This allows for eight hours of continuous operation. Each device includes a battery charger that plugs into a standard wall outlet.



Part No.	Description	Qty	List
P925-051	Pipette Filling Device	1/ea	\$466.30
P925-052	Stand for Pipette Filling Device	1/ea	\$52.87

Replacement Filters:

Part No.	Description	Qty	List
T660-273	Replacement Filters 0.2µm	5/pk	\$51.20
T660-274	Replacement Filters 0.45µm	5/pk	\$51.20

Pipette Racks

Protects and organizes glass and plastic pipettes.

Angled four shelved compartments keep your 0.1 to 50mL pipettes or cans within easy reach while preventing damage and clutter.

Heavy duty acrylic version provides crystal-clear viewing from any angle.

ABS versions have cut-out viewing window and come with two removable attachments that hold pipette bulbs, fillers and pumps.

Magnetized ABS version has strong magnets on both sides and mounts securely to most metal surfaces.

All racks measure 291 x 88 x 401mm.



Part No.	Material	Color	Qty	List
M220-270	Acrylic	Clear	1/ea	\$169.58
M220-271	ABS	Blue	1/ea	\$89.00
M220-273	ABS	Red	1/ea	\$89.00
M220-272	ABS Magnetized	Blue	1/ea	\$96.29

RF3000® Pipette Controller

Packed with features for comfortable and accurate pipetting the powerful pump offers rapid, yet sensitive aspiration and dispensing, has adjustable valves and is microprocessor controlled for constant reliability and accuracy.

Operates with 100–240 volt electrical supplies worldwide; long-life li-ion battery, with quick charge—up to 20 hours continuous use.

UV resistant housing; Universal grip and soft coated triggers with direction indicators, for right or left handed users.

Ergonomically balanced in the hand with a loaded pipette; bright LEDs indicate three operation modes: high, low and gravity.

Toggle operation by pressing the large mode button.

Five different colored nose cones included to help differentiate department, task or user, as well as a labeling area on the side of the unit.

Filters are readily available, so you are not tied into a pipette specific brand—helps reduce the total life costs of ownership versus other makes of pipette aids.

An adapter can be fitted to the nose cone to stabilize small volume and thinner pipettes.

Low battery indicator; can be recharged when in use.

Power: rechargeable li-Ion battery (replaceable)

Filter: PTFE/25mm dia / 0.45µm filter

Pipettes: 1 – 100mL, glass and plastic

Pipette Nozzle: polypropylene, autoclavable

Dimensions: 15 x 152 x 41mm

One-year warranty

Tested to comply with U.S., Canadian and European Safety and EMC Standards

Package Includes:

Charging stand and wall-mountable/magnetic holder

Nozzle adapter for use with small pipettes

Li-Ion rechargeable battery

Three replacement 0.45µm filters

Five nose cones, blue, black, yellow, red, grey

Low voltage double insulated AC adapter 100 to 240V, 50/60Hz with four interchangeable plugs



Part No.	Description	Qty	List
M220-617	RF3000 with Power Adapter	1/ea	\$418.03
M220-632	Battery RF3000	1/ea	\$41.05
M220-633	Nose Cone	5/pk	\$77.55

Pipette Workstation

Organize your pipette and tips.

Keep pipette and disposable tips together in one convenient stand.

Acrylic rack is opaque on sides but has clear front and bin lids for easy identification of contents.

Acrylic rack holds up to four pipette on top shelf.

Dual bins house two different sizes of tips. Self-closing lids provide dust-free storage.

Oversized lip on lid allows for easy access even when wearing gloves.

Part No.	Description	Dimensions (L x W x H)	Qty	List
M220-359	Pipette Workstation	244 x 165 x 246mm	1/ea	\$165.11



Poxygrid Microliter Pipettor Racks for Gilson Pipetman

Choose from 3 styles of epoxy-coated aluminum rack to hold Gilson Pipetman® pipettors.

Provides storage and easy access for up to 10 pipettors plus up to two Pipet-Aid® pipettes.

R100-297 for desktop storage.

R100-298 for wall mounting; has two holes for screw attachment to the wall and double faced tape (included).

R100-299 has extended base with raised lip to hold plastic tip boxes; suitable for wall mounting or for free standing on a bench.



Part No.	Description	Dimensions (L x W x H)	Qty	List
R100-297	For Desktop Storage	22.9 x 12.7 x 17.1cm (9 x 5 x 6¾")	1/ea	\$147.33
R100-298	For Wall Mounting	22.9 x 9.8 x 20.3cm (9 x 3⅞ x 8")	1/ea	\$123.92
R100-299	With Extended Base	22.9 x 20 x 17.1cm (9 x 7⅞ x 6¾")	1/ea	\$143.33



Pipette Rack

5 angled compartments
 Top 3 compartments are 3 x 3"
 Bottom 2 compartments are 3" tall x 1-3/8" wide
 Stores pipettes from 1 to 100mL
 Accommodates two pipette controllers on the top
 Diameter of pipette controller holes is 7/8"
 Made from heavy-duty clear-view acrylic



Part No.	Description (H x W x D)	Qty	List
G538-477	16 X 3.5 X 11 1/2"	1/ea	\$191.63

Pipette Rack, Acrylic

Clear acrylic pipette rack permits easy storage and access to pipettes.
 Pipette rack has four shelves that have an upward angle for secure storage and easy access.

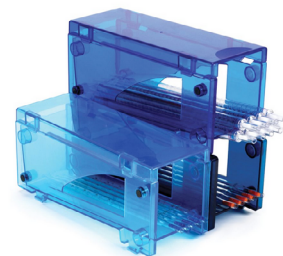


Part No.	Description (W x D x H)	Qty	List
R650-028	3 3/8 x 12 1/4 x 13"	1/ea	\$208.77

CARGO PIPETTE RACK

Organize the Cargo™ Pipette Rack to meet your laboratory or personal needs. Click together horizontally or vertically to build the desired configuration or use as individual holders, utilizing the three lid sections provided.

Magnets on both sides of units connect securely and safely to most metal surfaces.
 Angled shelves store 0.1 to 50mL pipettes within arm's reach for use.
 Protective lid encloses the unit to prevent dust build up and provides additional shelf space.
 Link to additional sets for larger needs and requirements.
 Assorted shades of blue: light, medium, dark.



Part No.	Description (H x W x D)	Qty	List
M220-276	301 x 100 x 127.5mm	3/pk	\$94.45

Pipettor Stand-6 Rack

Clear and handy pipettor parking.
 Keep up to 6 pipettors at hand with this clear, acrylic plastic holder.
 Cutouts on two shelves hold and support the most popular pipettor models.



Part No.	Description (H x W x D)	Qty	List
R100-294	30.5 x 12.7 x 24cm (12 x 5 x 9 1/2")	1/ea	\$141.45

Pipette Jars

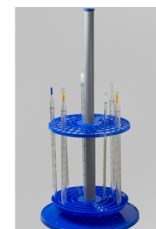
For cleaning and storage.
 Store and soak pipettes in these leakproof, molded polyethylene Pipette Jars.
 Withstands all common cleaning solutions at room temperature, including sulfuric acid/dichromate.



Part No.	Description	Qty	List
M440-327	15.2 dia x 46cmH (6 x 18")	1/ea	\$175.88
M440-328	15.2 dia x 61cmH (6 x 24")	1/ea	\$185.63

Rotary Pipette Stand

This unique stand holds up to 94 pipettes and rotates on a central vertical axis for convenient selection.
 Rotating disks are 18cm (7 1/8") diameter. Instructions for quick assembly included.
 Lower disc consists of four concentric troughs with tapered sides and open bottoms which cradle the tips protectively.
 Upper rotating disc has a grid pattern concentric with the bottom disc keeping the pipettes vertical.
 Liquid draining off the pipette tip is retained on top of the stationary base by the outer rim.
 Low center of gravity stabilizes the 48cm high (18 3/4") stand on the 23cm (9") diameter base.



Part No.	Places	Description (Diam. x H)	Qty	List
R100-292	94	23 x 48cm (9 x 18 3/4")	1/ea	\$96.53

Liquid Handling

Kartell Tray, Pipette 4 Place, PVC

Plastic pipette tray is designed to hold 30 pipettes.
4 compartments accommodate pipettes of 1, 2, 5 & 10mL capacities.



Part No.	Description	Qty	List
M460-013	510 x 350 x 105mm	1/ea	\$64.74

Dual Solution® Reservoir

Innovative shape guides and protects pipette tips
Polypropylene reagent reservoir has a standard 50mL basin on one side and 12 individual 5mL basins on the other side.
Two basins in one.
Angled wells guide pipette tips toward a center position to help avoid cross contamination and waste.
Imprinted wells identify samples; loose-fitting lids prevent evaporation and contamination.
Non-sterile, Polypropylene
Volume: 5/50mL
125 x 50 x 37mm
Pack of 25 reservoirs and 25 lids



Part No.	Description	Qty	List
M220-294	Non-Sterile, Polypropylene	25/pk	\$98.24

Pipetting Reservoir - Disposable

This economical, disposable, plastic pipetting reservoir has a 100mL capacity for extended multichannel pipetting into microwell plates, mini-Tubes, Cube 2ube® Tubes and deep well blocks.
Allows ample clearance for all types of pipettors.
Measures 9.2 x 15.2 x 3.2cm H (3⁵/₁₆ x 6 x 1¹/₄"")
Note: Sterilized products are not returnable.



Part No.	Description	Qty	List
M441-258	Bulk Packed, Non-Sterile	50/pk	\$95.85
M441-259	Individually Packed, Radiation Sterilized	50/pk	\$123.53

Reagent Reservoir, PP

For use with micropipettes. Total capacity of 75mL. Includes graduation marks at 10, 30 and 60mL levels.
Autoclavable.



Part No.	Description	Qty	List
B724-817	Reagent Reservoir, PP	12/pk	\$68.20

Looking for more organization options?
See page 400 to 402 for drawer options and free up your benchtop space!



“Three-In-One” Multi-channel Pipette Reservoir

One reservoir, three layouts.

Ideal for use when filling multi-tube blocks or microwell plates, this two-sided polypropylene reservoir is actually three reservoirs in one.

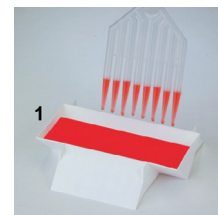
Graduated single reagent reservoir with graduations at 10, 25, 40 and 50mL is on one side.

One reservoir with 8 separate 5mL (max. capacity) reagent channels and another reservoir with 12 separate 5mL (max. capacity) reagent channels is on other side.

Each compartment of the multi-channel reservoirs is numbered for reagent identification.

Suitable for use with all brands of multichannel pipettors.

Autoclavable and reusable.



Part No.	Description	Qty	List
M441-264	Three in One	10/pk	\$84.30

Reagent Reservoirs

Reagent reservoirs are designed to assist in repetitive liquid transfer with multi-channel pipettors.

White color for solution visibility.

V-shaped to reduce waste.

Manufactured from polystyrene.

Packaged sterile (gamma irradiated) with 1 or 5 pieces per bag.



Part No.	Description	Qty	List
L140-059	50mL - Individual Pack, White, Sterile	80/cs	\$122.00
L140-060	50mL - Bulk Pack, White, Sterile	200/cs	\$137.00

Multi-Channel Reagent Reservoirs

Our multi-channel reservoirs are superior in every way with thicker walls, crush-resistant “turrets” at the corners, easy pour spouts, 25mL graduation marks and tabs to prevent stacked reservoirs from sticking together.

Tapered reservoir bottoms into a narrow trough to aid full sample recovery.

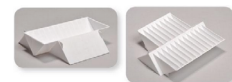
Sterile versions are individually sealed in Sani-Tear HDPE packets and gamma-irradiated in an ISO-Certified US facility. Traceable certificate available on request. Disposable.



Part No.	Description (L x W x H)	Qty	List
M220-267	55mL, Clear PVC, Non-Sterile, 145 x 85 x 25mm	100/pk	\$61.90

Reversible Reagent Reservoir, PP

This versatile polypropylene reservoir is useful for single and multichannel micropipettes. Positioned one way, it provides a 50mL reservoir for use with a single channel micropipette. Flipped over, it provides a numbered reservoir with eight separate 5mL reagent channels and a numbered reservoir with twelve separate 5mL reagent channels. Autoclavable.

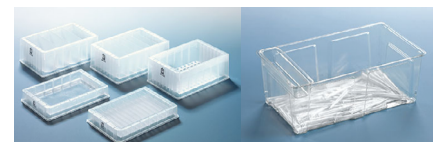


Part No.	Description (L x W x H)	Qty	List
B724-818	Reversible Reagent Reservoir, PP	6/pk	\$51.95

Reservoirs

Reagent reservoirs in many configurations allow for different volumes and different solutions to be used in the automated liquid handling process.

Reagent reservoirs, PP.



Part No.	Description	Working Vol. per Col.	Bottom Shape	Qty	List
T710-494	1-Col	220mL	Pyramid, 96 well	10/pk	\$417.00
T710-495	12-Col	6mL	Pyramid	10/pk	\$417.00
T710-496	4-Col	60mL	Pyramid	10/pk	\$417.00
T710-497	6-Col	40mL	Pyramid	10/pk	\$417.00
T710-498	1-Col, Low Profile	50mL	Flat	10/pk	\$417.00

*The indicated volume applies to the use with automated systems.

PIPETTE TIPS

Standard Pipette Tips

All BRAND pipette tips are produced using the most advanced cleanroom techniques to ensure consistently high quality. The tips are manufactured in an environmentally friendly manner using only high-purity polypropylene, free from oleamide and diHEMA - additives which can interfere with biological tests. Available non-sterile or BIO-CERT® sterile in a variety of packaging options (bulk, TipRefill, TipStack™, TipBox), tip volumes range from 0.1µL to 10mL.

Manufactured without lubricants.

Cadmium-free pigments.

Graduation for quick volume check.

All rack packed tips are free from DNA(<40fg), RNase(<8.6fg), ATP(<1fg) and endotoxins (<1fg).

Autoclavable at 121°C (2bar), acc. DIN EN 285



0.1-20µL (37mm long) - Sterile

Part No.	Description (Pack Type)	Qty	List
P210-565	Tip-Refill	960/cs	\$237.00
P210-580	TipBox	960/cs	\$237.00

0.1-20µL (37mm long) - Non-Sterile

Part No.	Description (Pack Type)	Qty	List
P210-543	Bulk	2,000/cs	\$136.00
P210-551	Bulk, XXL	10,000/cs	\$576.00
P210-557	Tip-Refill	960/cs	\$156.00
P210-572	TipBox	480/cs	\$115.50

0.5-20µL (46mm long; Graduations at 2µL and 10µL) - Sterile

Part No.	Description (Pack Type)	Qty	List
P210-566	Tip-Refill	960/cs	\$208.50
P210-581	TipBox	480/cs	\$208.50
P210-589	TipStack	960/cs	\$208.50

0.5-20µL (46mm long; Graduations at 2µL and 10µL) - Non-Sterile

Part No.	Description (Pack Type)	Qty	List
P210-545	Bulk	2,000/cs	\$105.00
P210-552	Bulk, XXL	10,000/cs	\$445.50
P210-559	Tip-Refill	960/cs	\$79.50
P210-574	TipBox	480/cs	\$48.00
P210-586	TipStack	960/cs	\$132.00

1-50µL (50mm long; Graduations at 2.5µL, 10µL, 25µL and 50µL) - Sterile

Part No.	Description (Pack Type)	Qty	List
P210-567	Tip-Refill	960/cs	\$208.50
P210-582	TipBox Sterile	960/cs	\$208.50

1-50µL (50mm long; Graduations at 2.5µL, 10µL, 25µL and 50µL) - Non-Sterile

Part No.	Description (Pack Type)	Qty	List
P210-547	Bulk	2,000/cs	\$105.00
P210-553	Bulk, XXL	10,000/cs	\$445.50
P210-561	Tip-Refill	960/cs	\$79.50
P210-576	TipBox	480/cs	\$48.00

2-200µL (50mm long; Graduations at 20µL and 100µL; bulk tips are yellow colored) - Sterile

Part No.	Description (Pack Type)	Qty	List
P210-568	Tip-Refill	960/cs	\$457.50
P210-583	TipBox	960/cs	\$157.50
P210-590	TipStack™	960/cs	\$157.50



2-200µL (50mm long; Graduations at 20µL & 100µL; bulk tips are yellow colored) - Non-Sterile

Part No.	Description (Pack Type)	Qty	List
P210-548	Bulk	1000/cs	\$28.50
P210-554	Bulk, XXL	10000/cs	\$213.50
P210-562	Tip-Refill	960/cs	\$55.50
P210-577	TipBox	480/cs	\$37.50

5-300µL (53mm long; Graduations at 50µL & 100µL) - Sterile - TipStack™

Part No.	Description (Pack Type)	Qty	List
P210-569	Tip-Refill	960/cs	\$159.00
P210-584	TipBox	960/cs	\$159.00

5-300µL (53mm long; Graduations at 50µL & 100µL) - Non-Sterile

Part No.	Description (Pack Type)	Qty	List
P210-549	Bulk	1000/cs	\$45.00
P210-555	Bulk, XXL	10000/cs	\$375.00
P210-563	Tip-Refill	960/cs	\$123.00
P210-578	TipBox	480/cs	\$75.00

50-1000µL (70mm long; Graduations at 250µL, 500µL & 1000µL; bulk tips are blue colored) - Sterile

Part No.	Description (Pack Type)	Qty	List
P210-570	Tip-Refill	960/cs	\$268.50
P210-585	TipBox	960/cs	\$276.00
P210-591	TipStack™	960/cs	\$276.00

50-1000µL (70mm long; Graduations at 250µL, 500µL & 1000µL; bulk tips are blue colored) - Non-Sterile

Part No.	Description (Pack Type)	Qty	List
P210-550	Bulk	1000/cs	\$31.50
P210-556	Bulk, XXL	10000/cs	\$117.50
P210-564	Tip-Refill	960/cs	\$78.00
P210-579	TipBox	480/cs	\$58.50
P210-588	TipStack™	960/cs	\$150.00

0.5-5mL (160mm long & approx. 9.6mm diameter) - Non-Sterile

Part No.	Description (Pack Type)	Qty	List
P210-178	Bulk	200/cs	\$61.50
P210-179	Bulk, XXL	1000/cs	\$289.50
P210-182	TipBox	28/cs	\$64.50

1-10mL (156.5mm long & approx. 15mm diameter) - Non-Sterile

Part No.	Description (Pack Type)	Qty	List
P210-180	Bulk	200/cs	\$121.50
P210-181	Bulk, XXL	1000/cs	\$546.00
P210-183	TipBox (18 Tips in Box)	1/ea	\$127.50



Low Retention, Micro & Universal Fit Tips

These tips use a special blend of polypropylene together with a custom mold finish achieve their low retention quality. We do not add any potentially bioactive processing additives such as slip agents or antistatic agents in the production of these tips. All of our low retention tips are certified free of detectable RNase, DNase and pyrogens.



Graduations for listed tips at 10,20,50,100,200

Pipetman (31mm)

Part No.	Volume (µl)	Sterilized	Color	Packaging	Qty	List
P621-938	0.1-10	No	Natural	1 bag of 1000	1000/cs	\$37.40
P621-937	0.1-10	No	Natural	10 racks of 96	960/cs	\$78.80
P621-935	0.1-10	Yes	Natural	10 racks of 96	960/cs	\$101.35

Ultra-Micro for Eppendorf (45mm)

Part No.	Volume (µl)	Sterilized	Color	Packaging	Qty	List
P621-934	.5-10	No	Natural	1 bag of 1000	1000/cs	\$37.95
P621-933	.5-10	No	Natural	10 racks of 96	960/cs	\$82.85

Universal Fit, Graduated (50mm) ,Beveled Tip

Part No.	Volume (µl)	Sterilized	Color	Packaging	Qty	List
P621-919	1-200	No	Natural	1 bag of 1000	1000/cs	\$44.45
P621-927	1-200	No	Natural	5 racks of 200	1000/cs	\$68.85
P621-921	1-200	No	Natural	10 racks of 96	960/cs	\$83.35
P621-928	1-200	No	Natural	10 racks of 96	960/cs	\$63.30
P621-925	1-200	Yes	Natural	10 racks of 96	960/cs	\$96.35
P621-901	1-200	No	Yellow	1 bag of 1000	1000/cs	\$44.35
P621-939	1-200	No	Yellow	5 racks of 200	1000/cs	\$69.65
P621-902	1-200	No	Yellow	10 racks of 96	960/cs	\$81.90
P621-915	1-200	No	Yellow	10 racks of 96	960/cs	\$63.30
P621-917	1-200	Yes	Yellow	10 racks of 96	960/cs	\$95.75

Universal Fit, Graduated, Extended Length (58mm)

Part No.	Volume (µl)	Sterilized	Color	Packaging	Qty	List
P621-948	1-300	No	Natural	1 bag of 1000	1000/cs	\$48.20
P621-949	1-300	No	Natural	10 racks of 96	960/cs	\$101.95
P621-951	1-300	No	Natural	10 racks of 96	960/cs	\$84.35
P621-952	1-300	Yes	Natural	10 racks of 96	960/cs	\$113.10
P621-953	1-300	No	Natural	5 racks of 200	1000/cs	\$70.50

Graduations for tips 100,250,500,750,1000

Universal Fit, Graduated (70mm) ,Beveled Tip

Part No.	Volume (µl)	Sterilized	Color	Packaging	Qty	List
P621-912	100-1000	No	Natural	1 bag of 1000	1000/cs	\$48.90
P621-920	100-1000	No	Natural	5 racks of 200	1000/cs	\$80.15
P621-914	100-1000	No	Natural	10 racks of 100	1000/cs	\$101.65
P621-916	100-1000	No	Natural	10 inserts of 100	1000/cs	\$76.85
P621-918	100-1000	Yes	Natural	10 racks of 100	1000/cs	\$148.20
P621-962	100-1250	No	Natural	1 bag of 1000	1000/cs	\$50.85
P621-900	100-1000	No	Blue	1 bag of 1000	1000/cs	\$48.80
P621-910	100-1000	No	Blue	5 racks of 200	1000/cs	\$79.55
P621-904	100-1000	No	Blue	10 racks of 100	1000/cs	\$98.30
P621-906	100-1000	No	Blue	10 inserts of 100	1000/cs	\$74.50
P621-908	100-1000	Yes	Blue	10 racks of 100	1000/cs	\$148.30

Have only a Fischer or VWR part number?

Would you like to know your status weekly, bi-weekly or monthly?

No problem, we are here to help.



Pipette Tip Accessories

Pipette Tip Disposal Box

Quick flip of port cover makes tip ejection easy.

Convenient for one-handed disposal of used pipette tips. Eliminates any need to handle pipette tips used with hazardous fluids.

The 3/8" (10mm) thick acrylic provides protection from Beta radiation.

The large, hinged lid allows easy disposal of contents.

Suggest using in conjunction with small Biohazard Disposal Bags (page 504), if hazardous fluids are not acrylic friendly.



Part No.	Description	Qty	List
M220-360	154 x 171 x 206mm	1/ea	\$155.61

Workstation Dispensing Bins

Crystal-clear bins let you see and organize your small items inventory.

See inventory levels of pipette tips, tubes, fittings, finger cots and other bulk small items at a glance.

Flip-top covers on generous openings make filling and dispensing easy and keep products dust-free.

4 sizes available to cater to a wide variety of storage needs.

Includes non-skid rubber feet.



Part No.	Compartments (L x W x D)	Qty	List
M220-332	One; 180 x 175 x 235mm	1/ea	\$88.92
M220-333	Two; 139 x 160 x 368mm	1/ea	\$103.74
M220-334	Three; 210 x 155 x 212mm	1/ea	\$118.55
M220-335	Four; 278 x 158 x 217mm	1/ea	\$125.95

Small Storage Bin

Organized, Dust-Free Storage

Dispenser keeps items such as alcohol pads, finger cots, microcentrifuge tubes and other small lab supplies organized and within easy reach.

White acrylic with clear acrylic front panel for viewing contents.

Top is removable for filling.

Hinged cover allows easy dispensing of items as needed.



Part No.	Dimensions (L x W x D)	Qty	List
M440-420	12.7 x 15.2 x 17.8cm (5 x 6 x 7")	1/ea	\$189.00

TipBox, with Tip-Tray, empty

The new BRAND® TipBox is supplied in a hinged configuration; to make it a lift-off type, simply remove the lid and rotate it 180°. Carrier plates are tinted for easy tip size identification and are imprinted with tip characteristics, which are visible through a window on the TipBox. TipBoxes withstand repeated autoclaving at 121°C for 20 minutes. The empty TipBox comes with a tip tray, ready to be filled with tips. Available in four sizes to accommodate tips sizes up to 1000µL.



Part No.	Tip Size	Qty	List
P210-663	up to 20µL	1/ea	\$10.40
P210-664	up to 200µL	1/ea	\$10.40
P210-665	up to 300µL	1/ea	\$10.40
P210-666	up to 1000µL	1/ea	\$10.40

Need disposal containers and bags?
See pages 503 to 512 for the different options to safely
dispose of contaminated glassware, plasticware and more!

SYRINGES

Luer Slip Sterile Syringe

Contains no rubber or silicone oil. Free from Latex, BOA, Styrene & DEHP. More biologically inert than standard 3-part syringes. DNA Free. Positive safety stop to help prevent spills.

Part No.	Volume	Graduated	Qty	List
S322-004	10mL	Yes to 12mL	100/pk	\$42.38
S322-005	20mL	Yes to 24mL	100/pk	\$50.40

Luer-Lok Tip Syringe

Use these latex-free, disposable polypropylene syringes for your general-purpose applications. Syringes come non-sterilized in bulk packages and can be autoclaved. Needles and shield tips are not included; order separately.

Part No.	Volume	Qty	List
S320-016	3mL	1600/cs	\$175.81

Luer Slip Non-sterile Syringe

Packaged in a factory clean room to eliminate contamination. All-plastic construction, no rubber/silicone oil contamination. Low background extractables, wide solvent compatibility. Reclosable plastic bag. Certified for HPLC sample prep.

Part No.	Volume	Graduated	Qty	List
S322-017	5mL	Yes to 6mL	100/pk	\$22.32

Luer-Lok Tip Syringe

Sterile. Control syringe features improved finger grips. Wrapped individually. Needles sold separately.

Part No.	Volume	Qty	List
S320-011	30mL	224/cs	\$170.34

Part No.	Volume	Qty	List
S320-010	10mL	400/cs	\$135.43

Part No.	Volume	Qty	List
S320-006	5mL	500/cs	\$99.14

Part No.	Volume	Qty	List
S320-015	60mL	40/pk	\$38.42

Part No.	Volume	Qty	List
S320-014	3mL	200/bx	\$44.94



Eccentric Tip - off center tip used for surface veins or artery injections.



Eccentric Tip - off center tip used for surface veins or artery injections.



Catheter Tip - Longer and tapered slip tip design used for irrigation or with tubing.



Catheter Tip - Longer and tapered slip tip design used for irrigation or with tubing.

More Syringes & Styles Available.
Contact us for more info.



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MISCELLANEOUS

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With such a wide selection of products from multiple manufacturers, not all options are listed here. If you do not see a product which meets the specifications you need, please feel free to contact us.

APPLICATORS

Sterile Foam Applicators

Sterile foam swabs for easy collection and transfer of buccal cells and saliva to Indicating FTA Cards.
 Non-abrasive foam head for comfortable sample collection.
 Easy-to-use applicator for implementation into any workflow.



Part No.	Description	Qty	List
F101-875	Sterile Foam Applicators	100pk	\$121.34

Solon Cotton-Tipped 6" x .5" Wood Applicator Packs

ISO 13485 certified
 Sterile
 Lint-free use
 First aid & veterinary uses
 6" x 1/2"



Part No.	Description	Qty	List
X108-213	6 x 1/2" Wood Applicator Packs (2 pk)	1000/cs	\$113.88

Tongue Depressors



Part No.	Size	Sterile	Qty	List
X107-957	6 x 11/16"	No	100/bx	\$19.67
X108-216	6"	Yes	100/bx	\$12.11

Wood Applicators

Smooth 6" applicators
 Excellent for general use
 Packaged in bulk for your convenience
 Not made with natural rubber latex



Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
X104-383	Non-Sterile, 6"	1000/bx	\$5.89	30bx/cs	\$176.70

Cotton Tipped Applicators

Wood applicators with an absorbent cotton tip
 Sterile 2's available in an easy to peel package
 Non-sterile applicators packaged in bags of 100 with a sterilization indicator strip on the bag
 Not made with natural rubber latex



Part No.	Description	Qty/pk	Qty/cs	List/cs
X104-391	Non-Sterile, 3"	1000/bg	10bg/cs	\$126.80
X104-396	Non-Sterile, 6"	1000/bg	10bg/cs	\$111.93
X104-404	Sterile, 3", 2/pk	100pk/bx	10bx/cs	\$67.30
X104-407	Sterile, 6", 2/pk	100pk/bx	10bx/cs	\$83.83
X104-421	Sterile, 6" Plastic Shaft	100pk/bx	10bx/cs	\$122.43



BAGS

Homogenizer Blender Filter Bags

Whirl-Pak® Homogenizer Blender Filter Bags

ISO9001 Whirl-Pak®

These special bags contain a third middle layer of finely perforated polyethylene, which filters out the solids in the sample when used in a homogenizer blender. Bags feature a filter layer of finely perforated polyethylene, to separate the liquid and solids, allowing for easy pipetting of the sample. The hole diameter in the filter layer measures .013 inches (.33mm), 330 microns and there are 1,840 holes per square inch, 285 per squarecm. The filter is sealed into the perimeter of the bag on the sides and bottom, allowing the sample to be placed in the bag on either side. The liquid will transfer through the filter, but the solids stay on one side.

Capacity is measured in fluid ounces when the bag is closed and tab is folded over three times. Volume and dimensions are approximate; bags should not be used at temperatures above 180° F (82° C). Bags can be frozen to any temperature, even liquid nitrogen - careful handling required after freezing. All bags are sterilized after manufacturing.



Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-119	7oz	3-3/4 x 7"	3.0mil	250/bx	\$229.28
B120-101	24oz	6 x 9"	4.0mil	250/bx	\$391.25
B120-091	55oz	7-1/2 x 12"	4.0mil	250/bx	\$465.00
B120-130	69oz	7-1/2 x 15"	4.0mil	250/bx	\$491.61
B120-164	92oz	10 x 15"	4.0mil	100/bx	\$366.61

Round Bottom Seal Homogenizer Blender Filter Bags

These bags feature a special round bottom seal designed to minimize sample fragments from getting caught in the corners of the bag during blending.

This bag is specially designed for use with homogenizer blenders. It is made from extra-heavy polyethylene and has special features to make sample testing easier and more efficient.



Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-065	52oz	7 x 13"	4.0mil	500/bx	\$458.75

Sponge Bags

Hydrated Speci-Sponge® Bags

Gamma radiated.

Hydrated sponge.

Environmental surface sampling can be faster and easier by using the Whirl-Pak® pre-moistened Speci-Sponge® bag. The sponge is ready to use and is hydrated with 10mL of neutralizing buffer that will neutralize several surface sanitizers including quaternary ammonium compounds, phenolics, iodine preps, chlorine preps, mercurials, formaldehyde and glutaraldehyde. To use, squeeze out excess buffer from the sponge - this can be done by squeezing the sponge from the outside with two hands or squeezing the sponge with a sterile gloved hand after opening the bag. Wipe the surface to be tested, return the sponge to the bag, close and send to the lab for analysis.



The buffer has a 24 month shelf life from date of manufacture and each carton is marked with an expiration date; no refrigeration is necessary. The bags are packaged in a foil liner bag to prevent evaporation of the buffer. Buffer contains monopotassium phosphate, sodium thiosulfate and aryl sulfonate complex.

Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-134	18oz	4-1/2 x 9"	2.5mil	100/bx	\$483.04

Hydrated Speci-Sponge® Bags with Sterile Glove

The bag includes a sterile glove folded in a separate compartment below the sponge. To use the glove, tear off the glove pack along the perforation. The glove is folded with the wrist end extended so it can be shaken open and put on without touching the hand area.

Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-135	18oz	4 x 9"	2.5mil	100/bx	\$593.39

Sterile Dry Sponge Probe

Sponge Probe is designed for surface sampling and is effective for hard-to-reach areas. The probe is made of polypropylene and comprised of two parts - a handle and a holder. The sponge is adhered to the holder. The probe is sterilized with ethylene oxide gas inside a 24-oz. (710mL) write-on bag. To use, add buffer to the bag, squeeze out the excess, swab the surface, insert the sponge back into the bag and while holding it from the outside, unscrew the handle and discard. Then drop the sponge into the bag, close and send to a lab for testing. The probe measures 8" (20.3cm) long.



Part No.	Description	Qty	List
B120-158	8" Sterile Dry Sponge Probe	50/bx	\$232.14

Standard Bags

Standard Whirl-Pak® Bags

Capacity is measured in fluid ounces when the bag is closed and tab is folded over three times. Volume and dimensions are approximate; bags should not be used at temperatures above 180° F (82° C). Bags can be frozen to any temperature, even liquid nitrogen - careful handling required after freezing. All bags are sterilized after manufacturing.



Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-015	2oz	3 x 5"	2.25mil	500/bx	\$112.14
B120-016	4oz	3 x 7-1/4"	2.25mil	500/bx	\$114.82
B120-017	7oz	3-3/4 x 7"	3.0mil	500/bx	\$140.89
B120-029	13oz	5-1/4 x 7-1/2"	3.0mil	500/bx	\$181.07
B120-022	18oz	4-1/2 x 9"	2.5mil	500/bx	\$161.61
B120-030	24oz	6 x 9"	3.0mil	500/bx	\$211.79
B120-039	24oz	6 x 9"	4.0mil	500/bx	\$275.38
B120-026	27oz	5 x 12"	3.0mil	500/bx	\$220.89
B120-027	36oz	5 x 15"	3.0mil	500/bx	\$258.04
B120-013	42oz	6 x 15"	3.0mil	500/bx	\$302.14
B120-094	69oz	7-1/2 x 15"	3.0mil	500/bx	\$345.89

Pocket Bags

You'll find many uses for this bag featuring an outside pocket for paperwork. The pocket measures 5-3/8" W x 5-5/8" L (13.7 x 14.2cm) and keeps important paperwork dry, clean and separate from the sample.

Capacity is measured in fluid ounces when the bag is closed and tab is folded over three times. Volume and dimensions are approximate; bags should not be used at temperatures above 180° F (82° C). Bags can be frozen to any temperature, even liquid nitrogen temperatures down to -346° F (-210° C) - careful handling required after freezing. All bags are sterilized after manufacturing.



Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-072	24oz	6 x 9"	2.5mil	500/bx	\$260.89

Write-On Bags

The white, write-on strip makes sample identification easier and more convenient. It's easy to write on this white strip using an ordinary ballpoint pen, pencil or felt-tip marker. The paper-like finish virtually eliminates ink smearing and provides a surface that will accept a variety of writing instruments.

Capacity is measured in fluid ounces when the bag is closed and tab is folded over three times. Volume and dimensions are approximate; bags should not be used at temperatures above 180° F (82° C). Bags can be frozen to any temperature, even liquid nitrogen - careful handling required after freezing.

All bags are sterilized after manufacturing.



Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-000	1oz	2-1/2 x 5"	2.25mil	500/bx	\$117.32
B120-001	2oz	3 x 5"	2.25mil	500/bx	\$119.82
B120-006	4oz	3 x 7-1/4"	2.25mil	500/bx	\$123.39
B120-007	7oz	3-3/4 x 7"	2.25mil	500/bx	\$154.28
B120-165	13oz	5-1/4 x 7-1/2"	2.25mil	500/bx	\$202.50
B120-043	18oz	4-1/2 x 9"	2.25mil	500/bx	\$173.57
B120-004	24oz	6 x 9"	3.0mil	500/bx	\$227.86
B120-060	24oz	6 x 9"	4.0mil	500/bx	\$287.50
B120-166	27oz	5 x 12"	3.0mil	500/bx	\$264.82
B120-018	55oz	7-1/2 x 12"	4.0mil	500/bx	\$401.25
B120-170	69oz	7-1/2 x 15"	3.0mil	500/bx	\$415.00



Stand-Up Bags

Stand-Up Bags - Write On

The Whirl-Pak® Stand-Up Bag makes sample handling and testing much easier because it gives users the ability to perform important laboratory functions with both hands, because the bag will stand completely by itself. No rack or other holder is needed to keep the bag upright. When the sample is placed inside, the special gusseted bottom flattens out, allowing the bag to stand up on its own. It works just like a beaker or bottle, however, it costs less, is sterilized, won't break and uses only a fraction of storage space as the other containers.

The white, write-on strip makes sample identification easier and more convenient. It's easy to write on this white strip using an ordinary ballpoint pen, pencil or felt-tip marker. The paper-like finish virtually eliminates ink smearing and provides a surface that will accept a variety of writing instruments.

Capacity is measured in fluid ounces when the bag is closed and tab is folded over three times. Volume and dimensions are approximate; bags should not be used at temperatures above 180° F (82° C). Bags can be frozen to any temperature, even liquid nitrogen temperatures down to -346° F (-210° C) - careful handling required after freezing. All bags are sterilized after manufacturing.



Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-145	69oz	7-1/2 x 15"	4.0mil	250/bx	\$322.50
B120-144	42oz	6 x 15"	4.0mil	250/bx	\$382.50
B120-143	36oz	5 x 15"	4.0mil	250/bx	\$250.00
B120-125	24oz	6 x 9"	3.0mil	500/bx	\$300.00
B120-008	18oz	4-1/2 x 9"	3.0mil	500/bx	\$342.50
B120-005	4oz	3 x 7-1/4"	2.5mil	500/bx	\$160.71

Surface Sampling Bags

Speci-Sponge® Environmental Surface Sampling Bags

Sponge for surface sampling.

The Whirl-Pak® Speci-Sponge® bag is designed for environmental surface sampling of work areas, equipment, animal carcasses and any other place where testing for *Listeria*, *Salmonella*, *E.coli*, coliforms and other foodborne pathogens, or anthrax is required.

The special dry sponge is free of bactericides and has been tested to be non-inhibitory. It measures approximately 1-1/2" x 3" x 5/8" (3.8 x 7.6 x 1.5cm) thick when wet and is sterilized inside a Whirl-Pak® bag. Wearing a sterile glove when wiping with the sponge is recommended to help prevent contamination. After the sample has been collected and the sponge returned to the bag, it can be sent to a lab for testing. In the lab, media may be added directly to the bag and the sample incubated inside the bag for a +/- test or the sample may be squeezed out of the sponge, pipetted and plated out.



Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-069	18oz	4-1/2 x 9"	2.5mil	100/bx	\$216.96
B120-084	55oz	7-1/2 x 12"	4.0mil	100/bx	\$308.04

Speci-Sponge® Environmental Surface Sampling Bags with Sterile Glove

Includes a sterile polyethylene glove attached in a bottom compartment. To use the glove, tear off the glove pack along the perforation. The glove is folded with the open end slightly extended so the glove can be held and shaken open without touching the hand area.

Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-124	18oz	4 x 9"	2.5mil	100/bx	\$452.32



Be sure to check out just a few of the blenders we offer on page 76. If you need replacement parts or different type of units; our sales representatives are always happy to help you find what you need.

Tedlar Bags

Fox Brand Tedlar Bags

Tedlar gas sampling bags are made of DuPont's 2mil Tedlar® PVF film. Tedlar® PVF film is tough, durable and considered chemically inert to a wide range of compounds. Bags of Tedlar® film can be used for indoor air sampling, hazardous waste sites, leaking underground storage tanks, stack sampling, soil gas sampling, gas blending, calibration test standards and most other gas sampling needs. All of our stock bags feature an eyelet and our patent-pending single 2-in-1 fittings that combine the valve and septum into one.



Part No.	Description	Qty	List
B128-000	0.5L PP Fitting 1 Grommet	10/cs	\$303.34
B128-001	1L PP Fitting 1 Grommet	10/cs	\$303.35
B128-003	3L PP	10/cs	\$303.34
B128-004	5L PP Fitting 1 Grommet	10/cs	\$438.17
B128-005	10L PP Fitting	10/cs	\$666.38
B128-014	1L SS Fitting 1 Grommet	10/cs	\$464.80
B128-017	5L SS Fitting 1 Grommet	10/cs	\$597.60

Thio - Bags

Whirl-Pak® Thio-Bags® - 3.38 oz. (100mL)

ISO9001 Whirl-Pak®

With sodium thiosulfate.

Specially designed for sampling chlorinated water, the Whirl-Pak® Thio-Bag® is economical and convenient to use.

This single use, sterilized, lightweight, unbreakable container is always ready for immediate use.

Used by many states and EPA approved, this strong transparent bag holds a nontoxic, nonnutritive tablet containing 10mg of active sodium thiosulfate to neutralize chlorine at the time of collection.

As an added feature, Thio-Bags® have:

- A Convenient Write-On Strip
- Markings for 100mL and 300mL Measurements

These markings help the technician collect the correct amount of water as required by the testing procedure (fill lines are approximate).

The write-on strip will accept virtually any writing instrument and minimizes ink smearing on the surface. A box of 100 bags takes up considerably less space than a box of 100 sample bottles. The 4-oz. (100mL) size bags are packaged 25 in a sealed bag, four bags per box, for easy use.

Capacity is measured in fluid ounces when the bag is closed and tab is folded over three times. Volume and dimensions are approximate; bags should not be used at temperatures above 180° F (82° C). Bags can be frozen to any temperature, even liquid nitrogen temperatures down to -346° F (-210° C) - careful handling required after freezing. All bags are sterilized after manufacturing.



Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-032	100mL	3 x 7-1/4"	2.25mil	100/cs	\$67.50

Whirl-Pak® Thio-Bags® - 10.1 oz. (300mL)

With sodium thiosulfate.

When it is necessary to run multiple tests, this 18-oz. Thio-Bag® provides a 300mL sample. It contains three times the amount of sodium thiosulfate as the smaller Thio-Bag® and holds 300mL when filled to the top of the white write-on strip (fill line).

Capacity is measured in fluid ounces when the bag is closed and tab is folded over three times. Volume and dimensions are approximate; bags should not be used at temperatures above 180° F (82° C). Bags can be frozen to any temperature, even liquid nitrogen temperatures down to -346° F (-210° C) - careful handling required after freezing. All bags are sterilized after manufacturing.



Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-071	300mL	4-1/2 x 9"	2.5mil	100/cs	\$127.68

Whirl-Pak® Waste Water Thio-Bags® - 3.4 oz. (100mL)

Meets National Environmental Laboratory Accreditation Conference (NELAC) standard, June 2003, for sampling waste water treated with 15 mg/l of chlorine. Sterile, 100mL bag contains 30 mg of sodium thiosulfate to neutralize chlorine. The bag has 100mL and 4-oz. fill lines.

Capacity is measured in fluid ounces when the bag is closed and tab is folded over three times. Volume and dimensions are approximate; bags should not be used at temperatures above 180° F (82° C). Bags can be frozen to any temperature, even liquid nitrogen temperatures down to -346° F (-210° C) - careful handling required after freezing. All bags are sterilized after manufacturing.



Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-138	100mL	3 x 7-1/4"	2.25mil	100/cs	\$61.25



Stand-Up Thio-Bags®

With sodium thiosulfate.

The job of collecting water samples is easier with the Whirl-Pak® Stand-Up Thio-Bag®! A special gusset on the bottom of the bag flattens out when water is put in the bag, allowing it to stand up completely by itself. No rack or other holder is needed to keep the bag upright. Forget washing and sterilizing glass bottles and disposing of expensive vials. Sterile and unbreakable, these bags will save time and money whether working in the lab or in the field. Each bag contains 10 mg of active sodium thiosulfate to neutralize chlorine in the sample.

Capacity is measured in fluid ounces when the bag is closed and tab is folded over three times. Volume and dimensions are approximate; bags should not be used at temperatures above 180° F (82° C). Bags can be frozen to any temperature, even liquid nitrogen temperatures down to -346° F (-210° C) - careful handling required after freezing.

All bags are sterilized after manufacturing.



Part No.	Capacity	Size (W x L)	Thickness	Qty	List
B120-009	100ml	3 x 7-1/4"	2.5mil	100/cs	\$70.36
B120-014	300ml	4-1/2 x 9"	3.0mil	100/cs	\$132.14

Bag Accessories

Carrying Rack

Made in USA Iso Plastics

This rack is specially designed to hold the following Whirl-Pak® bags: B120-016, B120-017, B120-015, B120-032, B120-006, B120-001, B120-000, B122-001, B120-119, B122-008, B140-100, B120-156 and B120-007. Made in the U.S.A. of 10 and 12-gauge steel fused together to create strong joints and straight lines. Rack is finished with an electrostatically applied powder coating. The result is a strong, durable finish which will stand up to many laboratory materials and the rack can be autoclaved. Max dry temperature is 300° F (148°C) and wet temperature is 500° F (260°C). Dimensions listed are approximate.



Part No.	Compartments	Rack Size (W x L x H)	Compartment Size (W x L)	Qty	List
B120-020	21	6-1/2 x 12-1/2 x 3"	1-5/8 x 2"	1/ea	\$61.07
B120-021	15	6-1/2 x 9 x 3"	1-5/8 x 2"	1/ea	\$55.54
B120-023	30	9-3/4 x 10-5/8 x 3"	1-1/2 x 2"	1/ea	\$66.61
B120-025	18	6-1/2 x 10-3/4 x 3"	1-5/8 x 2"	1/ea	\$58.04
B120-031	18	6-1/2 x 12-3/4 x 3"	2 x 2"	1/ea	\$76.78
B120-047	15	8-1/4 x 6 x 3-1/4"	1-3/4 x 1-1/2"	1/ea	\$55.36

Carrying Rack

Made in USA

This rack is specially designed to hold the following Whirl-Pak® bags: B120-022, B120-026, B120-027, B120-029, B120-030, B120-039, B120-043, B120-060, B120-070, B120-071, B120-072, B120-007, B120-101, B120-008, B120-125, B120-014, B120-131, B120-143, B120-165 and B120-166. Made in the U.S.A. of 10 and 12-gauge steel fused together to create strong joints and straight lines. Rack is finished with an electrostatically applied powder coating. The result is a strong, durable finish which will stand up to many laboratory materials and the rack can be autoclaved. Max dry temperature is 300° F (148°C) and wet temperature is 500° F (260°C). Dimensions listed are approximate.



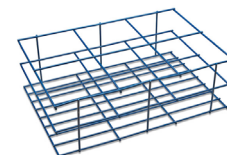
Part No.	Compartments	Rack Size (W x L x H)	Compartment Size (W x L)	Qty	List
B120-024	12	10 x 10 x 3-1/2"	3 x 2-3/8"	1/ea	\$74.64
B120-028	20	13-3/8 x 10-5/8 x 4"	2-1/2 x 2-1/2"	1/ea	\$77.14

Carrying Rack - 6 Compartment

Made in the U.S.A. of 10 and 12-gauge steel fused together to create strong joints and straight lines. Rack is finished with an electrostatically applied powder coating. The result is a strong, durable finish which will stand up to many laboratory materials and the rack can be autoclaved. Max dry temperature is 300° F (148°C) and wet temperature is 500° F (260°C). Dimensions listed above are approximate. This rack can also be used for plate incubation by turning it on one side.

This rack is specially designed to hold the following Whirl-Pak® bags: B120-026, B120-027, B120-029, B120-030, B120-013, B120-039, B120-018, B120-060, B120-065, B120-004, B120-084, B120-091, B120-094, B120-101, B120-005, B120-125, B120-130, B120-143, B120-144, B120-145, B120-165, B120-166, B120-170 and B120-179.

Part No.	Compartments	Rack Size (W x L x H)	Compartment Size (W x L)	Qty	List
B120-035	6	13-3/4 x 9-1/4 x 4-1/2"	4-1/2 x 4-1/2"	1/ea	\$90.36



Carrying Rack with Handle

Made in USA.

Made of 10- and 12-gauge steel fused together to create strong joints and straight lines. Rack is finished with an electrostatically applied powder coating. The result is a strong, durable finish which will stand up to many laboratory materials and the rack can be autoclaved. Max dry temperature is 300°F (148°C) and wet temperature is 500°F (260°C). Please note: Dimensions listed are approximate.



Part No.	Compartments	Rack Size (Diam. x H)	Holds	Qty	List
B120-180	1	7 x 10"	92 oz	1/ea	\$75.00
B120-181	1	7 x 10"	123 oz	1/ea	\$77.50
B120-182	1	9 x 12"	184 oz	1/ea	\$80.00

Rack Handle

Iso Plastics.

Universal rack handle fits all sizes of racks, making it easy to carry a full rack in one hand. Lightweight, strong and comfortable to hold. Attaches and detaches easily and quickly, so it never gets in the way. Designed to prevent rack from tipping while it's carried. Overall length: 18" (45.7cm).



Part No.	Description	Qty	List
B120-086	Universal Rack Handle	1/ea	\$82.14

BRUSHES

Beaker Brushes - Hardwood Handle - Heavy Double Tufted End

Brush Material: Black Nylon

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-140	2 1/2"	4"	12"	1/ea	\$28.75
B441-141	3"	5"	16"	1/ea	\$38.44
B441-001	2 7/8-2 3/8"	6"	16"	1/ea	\$31.49



Brush Material: White Nylon

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-144	2 7/8-2 3/8"	6"	16"	1/ea	\$86.94

Beakers, Jars and Cylinder Brush - Wood Handle - Tufted End

Brush Material: Black Bristle

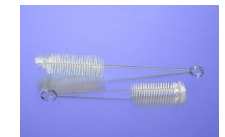
Part No.	Rows	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-137	2	2 3/8"	6"	16"	1/ea	\$18.75
B441-139	4	3"	6"	16"	1/ea	\$38.00
B441-138	4	3 1/4"	5 1/2"	13"	1/ea	\$44.36



Bottle Brushes - Fan Tip

Brush Material: White Bristle

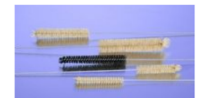
Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-158	1 3/4"	4 1/2"	11"	1/ea	\$8.78



Burrett Brush

Brush Material: White Nylon

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-072	3/4"	3 1/4"	36"	1/ea	\$3.57
B441-094	1 1/4"	3 1/2"	24"	12/pk	\$125.09



Carboy or Water Bottle Brush

Brush Material: Black Nylon

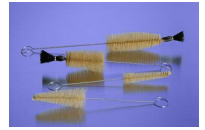
Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-043	2"	8"	22"	1/ea	\$10.40



Centrifuge Brush - Black Nylon Tuft

Brush Material: *White Bristle*

Part No.	Size	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-082	n/a	3/8-1 1/2"	3 1/2"	9"	1/ea	\$7.91
B441-083	15mL	1/2-13/16"	3"	9"	1/ea	\$7.61
B441-085	100mL	3/4-1 1/2"	4 1/2"	9"	1/ea	\$11.96



Cylinder & Bottle Brush - Radial End

Brush Material: *Black Bristle*

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-716	1 3/4"	4 1/2"	11 1/2"	1/ea	\$10.77
B441-710	2"	5"	11"	1/ea	\$10.85
B441-711	2"	5"	13"	1/ea	\$11.59
B441-712	2"	5"	16"	1/ea	\$12.64



Brush Material: *Black Nylon*

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-707	2"	5"	11"	1/ea	\$10.18
B441-714	2 3/8"	6"	30"	1/ea	\$27.16
B441-715	2 1/2"	6"	17"	1/ea	\$15.12

Cylinder & Bottle Brush - Tied Tip

Brush Material: *Black Bristle*

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-717	1 1/2"	4 3/4"	12"	1/ea	\$15.64
B441-719	1 15/16"	4 3/4"	20"	1/ea	\$17.57



Counter Duster

Brush Material: *White Flagged Nylon*

Part No.	Brush Trim	Brush Length	Overall Length	Qty	List
B441-010	1 7/8"	7 1/4"	12"	1/ea	\$33.94



Flask or Nurse Bottle Brush - Double Tufted End

Brush Material: *Black Bristle*

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-725	1 1/2"	4 1/4"	12"	1/ea	\$18.16
B441-726	1 3/4"	4 1/4"	16"	1/ea	\$19.80



Flask Brushes - Fan Tip

Brush Material: *Black Bristle*

Part No.	Size	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-735	25mL	1 3/4"	1 3/4"	9"	1/ea	\$5.61
B441-736	50mL	2 1/8-9/16"	1 3/4"	9"	1/ea	\$6.47



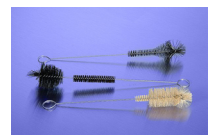
Brush Material: *White Bristle*

Part No.	Size	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-737	100mL	1 1/2"	2 3/8"	12"	1/ea	\$15.42

Babcock Cream Test Brush - Radial End

Brush Material: *Black Nylon*

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-086	1 3/4"	4 1/2"	11"	1/ea	\$3.12



You can find cleaner & detergents
for glass and plastic on pages 384-385.

Volumetric Flask Brushes

Brush Material: White Bristle

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-729	1 3/8"	3 1/2"	12"	1/ea	\$12.40
B441-731	1 1/2"	4"	14"	1/ea	\$12.84
B441-733	1 3/4"	5"	17"	1/ea	\$13.58
B441-045	1 1/2"	4"	16"	1/ea	\$16.21



Brush Material: Black Bristle

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-046	1 3/4"	4"	16"	1/ea	\$16.21

Brush Material: White Nylon

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-732	1 1/2"	4"	14"	1/ea	\$14.78
B441-734	1 3/4"	5"	17"	1/ea	\$4.42

Funnel / Graduate or Cylinder Brush

Brush Material: Black Bristle

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-040	2 1/8"	4 1/2"	9"	1/ea	\$33.93
B441-041	2 1/4"	6"	13"	1/ea	\$33.88



Graduate / Funnel Brush - Stainless Steel Wire

Brush Material: White Polyester

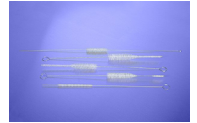
Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-172	2 1/4"	6"	13"	1/ea	\$47.33



Pipette Brush - Soft White Nylon

Brush Material: White Nylon

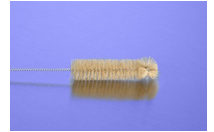
Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-087	3/16 - 3/4"	7 1/2"	17"	1/ea	\$3.54
B441-088	3/16 - 15/16"	7 1/2"	17"	1/ea	\$7.31



Micro-Tube Brush - Stainless Steel Wire

Brush Material: White Polyester

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-161	3/16 - 1/2"	3"	7"	1/ea	\$9.60



High Form Nessler Tube Brushes - Fan Tip

Brush Material: White Bristle

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-027	1"	4 1/4"	24"	1/ea	\$8.05

Brush Material: White Nylon

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-028	1"	4 1/4"	24"	1/ea	\$9.33

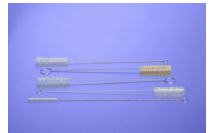
Narrow Tube or Drinking Straw

Brush Material: White Bristle

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-150	1/2"	3"	12"	1/ea	\$6.64

Brush Material: White Nylon

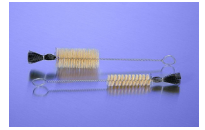
Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-096	1/2"	2 1/2"	12"	1/ea	\$7.08
B441-156	3/4"	3"	14"	1/ea	\$7.67



Test Tube Brush - Tied Tip

Brush Material: White Bristle

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-126	1/2"	3 1/2"	10 1/2"	1/ea	\$14.15
B441-051	3/4"	2 1/4"	9"	1/ea	\$10.11
B441-125	1 1/8"	3"	10 1/2"	1/ea	\$9.67
B441-127	1 1/4"	2 1/2"	10 1/2"	1/ea	\$9.73
B441-089	1 3/8"	3"	10"	1/ea	\$9.82



Test Tube Brush - Radial Tip

Brush Material: White Bristle

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-008	3/8"	2"	8"	1/ea	\$2.54
B441-099	1/2"	3"	8"	1/ea	\$7.31
B441-047	5/8"	3"	12"	1/ea	\$3.23
B441-090	3/4"	3 1/4"	9"	1/ea	\$7.31
B441-029	1 1/8"	4 1/4"	10"	1/ea	\$7.56
B441-091	1 3/8"	4"	10"	1/ea	\$8.78



Brush Material: White Nylon

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-065	7/16"	3"	9"	1/ea	\$7.45
B441-133	1/2"	3"	8"	1/ea	\$2.49
B441-134	3/4"	3 1/4"	9"	1/ea	\$8.34
B441-135	1 3/8"	4"	10"	1/ea	\$10.42

Test Tube Brush - Tapered Radial End

Brush Material: White Bristle

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-092	5/8 - 1/2"	3 1/4"	9"	1/ea	\$8.33
B441-059	1 1/2 - 1 1/4"	4"	10 1/2"	1/ea	\$3.83



Test Tube Brush - Fan Tip

Brush Material: White Bristle

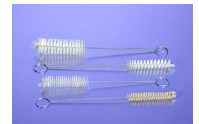
Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-066	7/16"	3"	9"	1/ea	\$5.98
B441-070	3/4"	3 1/4"	10"	1/ea	\$8.43
B441-103	7/8"	4"	10"	1/ea	\$8.73
B441-077	1 3/8"	3 1/4"	10"	1/ea	\$9.60



Test Tube Brush - Stainless Steel Handle

Brush Material: White Nylon

Part No.	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-746	3/4"	3 1/2"	9"	1/ea	\$12.86
B441-747	1 3/8"	4"	11"	1/ea	\$12.78



Trachea Tube Brushes

Brush Material: White Nylon

Part No.	Tip	Brush Diameter	Brush Length	Overall Length	Qty	List
B441-035	ST	1/4"	2 1/2"	4 3/4"	1/ea	\$6.94
B441-033	FT	3/16 - 1/2"	3"	7"	1/ea	\$1.89
B441-034	FT	1/2"	3"	6"	1/ea	\$6.46



Don't forget your Drying Racks
on pages 406 & 407.

BURNERS

Adjustable Burner with Adjustable Gas Valve & Flame Stabilizer

Adjustable burners utilize the same high-quality die-cast bases as standard burners, but provide a precision needle valve to achieve an accurate, adjustable flame.

*Note: CFHs and BTU outputs are figured on: 5 inch water column pressures for artificial and natural burners. 11 inch water Column Pressures for LP Burners.

Inlet OD for all Burners: 5/16" Serrated



Adjustable burner with threaded needle valve with adj. gas valve & flame stabilizer, natural gas, 1/2"(13mm) mixing tube OD, 4 CFH, 4,100 BTU output, 6-1/8" (156mm) overall height

Part No.	Description	Qty	List
B890-020	.....4 CFH, 4100 BTU	.....1/ea	.....\$22.95

Adjustable burner with threaded needle valve with adj. gas valve & flame stabilizer, LP(Cylinder) gas, 1/2"(13mm) mixing tube OD, 1.75 CFH, 4,270 BTU output, 6-1/8" (156mm) overall height

Part No.	Description	Qty	List
B890-021	..... 1.75 CFH, 4270 BTU	.....1/ea	.....\$22.95

Standard Burner with Air Regulator Only w/Flame Stabilizer

Bunsen burners are high-quality, American-made burners with nickel-plated, die-cast zinc bases. Burners feature aluminum mixing tubes and serrated gas inlet connections.

*Note: CFHs and BTU Outputs are figured on: 5 inch water column pressures for artificial and natural burners. 11 inch water column pressures for LP burners.

Inlet OD for all burners: 5/16" serrated.



Standard burner w/flame stabilizer, natural gas, 1/2"(13mm) mixing tube OD, 4 CFH, 4,100 BTU Output, 6-1/8" (156mm) overall height

Part No.	Description	Qty	List
B890-017	.....4 CFH, 4100 BTU	.....1/ea	.....\$21.89

Standard burner w/flame stabilizer, LP (Cylinder) gas, 1/2"(13mm) mixing tube OD, 1.75 CFH, 4,270 BTU output, 6-1/8" (156mm) overall height

Part No.	Description	Qty	List
B890-018	..... 1.75 CFH, 4270 BTU	.....1/ea	.....\$20.80

Adjustable Burners with Threaded Needle Valves

Adjustable burners utilize the same high-quality die-cast bases as standard burners, but provide a precision needle valve to achieve an accurate, adjustable flame.


*Note: CFHs and BTU Outputs are figured on: 5 inch water column pressures for artificial and natural burners. 11 inch water column pressures for LP burners.

Inlet OD for all burners: 5/16" serrated.





Adjustable burner with threaded needle valve with adj. gas valve, artificial gas, 7/16"(11mm) mixing tube OD, 6.25 CFH, 3,750 BTU output, 6-1/8" (156mm) overall height.

Part No.	Description	Qty	List
B890-019	..... 6.25 CFH, 3750 BTU	.....1/ea	.....\$26.42





Beakers: Pages 146 to 147






Filtering Flasks: Pages 175-177





Distillation: Page 177



Boiling Flask: Page 172

Erlenmeyer Flask: Pages 173 to 174



Burner Accessories

Tripod Stands, Cast Iron

Cast iron ring with black enamel finish. Detachable zinc plated legs are interchangeable for use with various sizes of rings. Rings and legs are also available individually.

Part No.	Ring O.D.	Height	Qty	List
T660-590	3.5"	6"	1/ea	\$19.30
T660-591	3.5"	9"	1/ea	\$21.25
T660-593	5"	9"	1/ea	\$21.25
T660-592	5"	8"	1/ea	\$22.25
T660-594	6"	9"	1/ea	\$24.80



Tripod Stands with Concentric Rings, Cast Iron

Removable concentric rings provide an adjustable worksurface for various applications. Available with three or four cast iron rings with black enamel finish. Detachable zinc plated legs are interchangeable for use with various sizes of rings. Rings and legs are also available individually.

Part No.	Ring O.D.	Height	Qty	List
T660-532	3.5", 4.75", 6.5"	9"	1/ea	\$31.83
T660-533	3.5", 4.75", 6.5", 8"	9"	1/ea	\$48.85



Clay Pipe Triangles

Good quality clay pipe mounted on heavy gauge twisted galvanized steel wire.

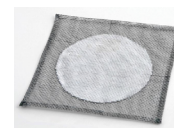
Part No.	Description (Side Length)	Qty	List
C222-035	1.5"	1/ea	\$1.68
C222-036	2.0"	1/ea	\$2.00
C222-037	2.5"	1/ea	\$3.15
C222-038	3.0"	1/ea	\$1.84



Wire Gauze with Ceramic Center

Iron wire gauze (24 SWG/10 Mesh) with ceramic coating at the center and folded edges. Contains no asbestos.

Part No.	Description (L x W)	Qty	List
T660-728	4 x 4"	10/pk	\$11.32
T660-729	5 x 5"	10/pk	\$14.48
T660-730	6 x 6"	10/pk	\$35.25



Wire Gauze, Plain

Iron wire gauze (24 SWG/10 Mesh) with folded edges. Sold as packs of 10.

Part No.	Description (L x W)	Qty	List
T660-743	4 x 4"	10/pk	\$16.40
T660-744	5 x 5"	10/pk	\$22.75
T660-745	6 x 6"	10/pk	\$28.95



Don't forget to grab your tongs on page 429.



CLAMPS

Large 3-Prong Dual Adjust Heavy-Duty Clamp

Talboys patented multi-purpose UltraJaws Heavy-Duty Clamps feature an innovative closed yoke construction that minimizes contamination and corrosion of internal components. The unique design enables secure gripping and positioning with added strength and durability.

Available in both single and dual prong adjustment, prongs open gradually to maximize grip size without binding.

Both designs feature precise pressure regulation when gripping glassware surfaces to reduce chance of breakage. UltraJaws Clamps are constructed with extension rods for easy attachment to lab-frames and other apparatus. Supplied with non-slip vinyl sleeves and for temperatures above 100°C, fiberglass covers.

The prong height of the UltraJaws Heavy-Duty Clamps make them ideal for use in holding and securing glassware with precision ground glass joints.

Large grip adjustment range; single or dual adjust; nickel-plated zinc.

Maximum grip size:	103mm (4.06")	Joint size:	45/50mm
Prong width:	29mm (1.14")	Arm length:	127mm (5")
Arm diameter:	11mm (0.43")	Min to max grip size:	0 to 103mm (0 to 4.06")
Overall length:	260mm (10.24")		



Part No.	Description	Qty	List
C870-063	Large Dual Adjust, Heavy Duty	1/ea	\$65.32

3-Prong Heavy Duty Extension Clamp with Stainless Steel Rod

This extension clamp features heavy-duty electroplated zinc alloy construction and dual prong adjustments. The 5" long extension rod is constructed of stainless steel. Prongs open to about 4", have a recommended maximum grip size of about 3.25" and feature double keyed spring-type adjustment screws. Prongs are covered with non-slip PVC sleeves. Overall length is 10.75".



Part No.	Description	Maximum Use Temperature	Qty	List
C222-059	Heavy Duty Clamp	80°C	1/ea	\$45.38

Clamp-Regular Holder

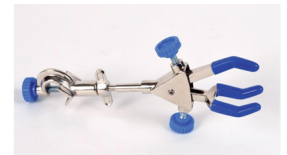
Ideal for holding clamps to lab-frames. Use wherever clamping at 90° is required. Stainless steel electro-polished finish or nickel-plated zinc construction.



Part No.	Min to Max Grip	Qty	List
C870-005	0 to 18mm (0 to 0.71")	1/ea	\$26.13

3-Prong Extension Clamps with Boss Head

Our deluxe line of 3-prong extension clamps are constructed of pressure die-cast zinc alloy and are chrome-plated. Prongs open to about 3", have a recommended maximum grip size of about 2.25" and feature double keyed spring-type adjustment screws. Boss head clamp can swing freely, is lockable at any angle up to 360° and can be used with rods up to 19mm.



Part No.	Description	Maximum Use Temperature	Qty	List
C221-893	PVC Coated Grips	80°C	1/ea	\$34.16
C221-891	Silicone Coated Grips	280°C	1/ea	\$35.88

Medium 2-Prong Single Adjust Nickel-Plated Zinc Clamp

Designed to securely hold laboratory glassware and apparatus. Extension arm attaches clamp head securely and offers easy positioning in the deepest fume hoods. Clamps are constructed with round extension arms, which allow the clamps to be rotated 360°. Extension arms also allow placement of apparatus at various distances from lab-frames without compromising the integrity of your experiment. Supplied with non-slip vinyl sleeves and for temperatures above 100°C, fiberglass covers.

Large grip adjustment range; 2 prong construction; single or dual adjust; nickel-plated zinc.

Min to max grip size:	0 to 78mm (0 to 3.07")	Arm diameter:	11mm (0.43")
Maximum grip size:	78mm (3.07")	Overall length:	216mm (8.5")
Prong width:	23mm (0.91")	Arm length:	127mm (5")



Part No.	Description	Qty	List
C870-014	Medium, Single Adjust	1/ea	\$40.50



Large 2-Prong Single Adjust Nickel-Plated Zinc Clamp

Designed to securely hold laboratory glassware and apparatus. Extension arm attaches clamp head securely and offers easy positioning in the deepest fume hoods. Clamps are constructed with round extension arms, which allow the clamps to be rotated 360°. Extension arms also allow placement of apparatus at various distances from lab-frames without compromising the integrity of your experiment. Supplied with non-slip vinyl sleeves and for temperatures above 100°C, fiberglass covers.

Large grip adjustment range; 2 prong construction; single or dual adjust; nickel-plated zinc

Min to max grip size:	0 to 92mm (0 to 3.62")	Arm diameter:	11mm (0.43")
Maximum grip size:	92mm (3.62")	Overall length:	229mm (9.02")
Prong width:	23mm (0.91")	Arm length:	127mm (5")



Part No.	Description	Qty	List
C870-012	Large 2-Prong Single Adjust Nickel-Plated Zinc Clamp	1/ea	\$44.43

Medium 2-Prong Dual Adjust Stainless Steel Clamp

Designed to securely hold laboratory glassware and apparatus. Extension arm attaches clamp head securely and offers easy positioning in the deepest fume hoods. Clamps are constructed with round extension arms, which allow the clamps to be rotated 360°. Extension arms also allow placement of apparatus at various distances from lab-frames without comprising the integrity of your experiment. Supplied with non-slip vinyl sleeves and for temperatures above 100°C, fiberglass covers.

Stainless steel, electro-polished finish; large grip adjustment range; dual adjust

Min to max grip size:	0 to 75mm (0 to 2.95")	Arm diameter:	11mm (0.43")
Maximum grip size:	75mm (2.95")	Overall length:	229mm (9.02")
Prong width:	23mm (0.91")	Prong adjustment:	2-Prong dual adjust
Arm length:	127mm (5")		



Part No.	Description	Qty	List
C870-430	Medium 2-Prong Dual Adjust Stainless Steel Clamp	1/ea	\$100.57

Swivel Clamp, Medium 2-Prong Single Adjust, Stainless Steel

Used to hold apparatus near the lab-frame. Unlike extension clamps, the swivel clamps have an integrated holder for attaching to a lab-frame or other apparatus. Built-in holder grips rods up to 19mm (0.75") in diameter and is adjustable for forward or reverse-facing adjustment screws. Shaft wing-nut allows the holding angle of the swivel clamp to adjust through 360° of rotation and can be locked in place once desired position is achieved. Stainless steel electro-polished finish or nickel-plated zinc construction. Supplied with non-slip vinyl sleeves and for temperatures above 100°C, fiberglass covers.

Prong adjustment:	2-Prong single adjust	Prong width:	23mm (0.91")
Min to max grip size:	0 to 76mm (0 to 3")	Overall length:	163mm (6.42")
Maximum grip size:	76mm (3")		



Part No.	Description	Qty	List
C870-436	Medium 2-Prong Single Adjust Stainless Steel Swivel Clamp	1/ea	\$116.26

Double Jaw Utility Clamp

Swivels 360° and locks securely in desired position. These 2 prong clamps have a medium and a large clamp on each end. Nickel-plated zinc construction. Supplied with non-slip vinyl sleeves and for temperatures above 100°C, fiberglass covers.

Min to max grip size:	0 to 76mm (0 to 3")	Overall length:	222mm (8.74")
Maximum grip size:	76mm (3")	Prong adjustment:	2-Prong
Prong width:	23mm (0.91")		



Part No.	Description	Qty	List
C870-027	Double Jaw Utility Clamp	1/ea	\$52.26

Replacement Sleeves are Available.

Small Chain Clamp

Holds large round or irregular shaped objects firmly, yet gently to lab-frames and rods. Quick and secure slip-on chain connection with large, easy-to-turn adjusting knob. Extension arm allows user to vary distance from the frame. Available as stainless steel clamp, constructed entirely of stainless steel with electro-polished finish or nickel-plated zinc clamp with strong, chromed-brass chain.

Arm length: 127mm (5")
 Arm diameter: 13mm (0.51")
 Min to max grip size: 35 to 170mm (1.38 to 6.69")
 Overall length: 188mm (7.4")



Part No.	Description / Max Grip Size	Qty	List
C870-026	Small Chain Clamp / 170mm (6.69")	1/ea	\$69.22

Large-5 Chain Clamp, Nickel-Plated Zinc

Holds large round or irregular shaped objects firmly, yet gently to lab-frames and rods. Quick and secure slip-on chain connection with large, easy-to-turn adjusting knob. Extension arm allows user to vary distance from the frame. Available as stainless steel clamp, constructed entirely of stainless steel with electro-polished finish or nickel-plated zinc clamp with strong, chromed-brass chain.

Arm length: 127mm (5")
 Arm diameter: 13mm (0.51")
 Min to max grip size: 35 to 280mm (1.38 to 11.02")
 Overall length: 206mm (8.11")



Part No.	Description / Max Grip Size	Qty	List
C870-083	Large 5 Chain Clamp / 280mm (11.02")	1/ea	\$101.89

Large-12 Chain Clamp

Holds large round or irregular shaped objects firmly, yet gently to lab-frames and rods. Quick and secure slip-on chain connection with large, easy-to-turn adjusting knob. Extension arm allows user to vary distance from the frame. Available as stainless steel clamp, constructed entirely of stainless steel with electro-polished finish or nickel-plated zinc clamp with strong, chromed-brass chain.

Maximum grip size: 280mm (11.02")
 Arm length: 305mm (12")
 Arm diameter: 13mm (0.51")
 Min to max grip size: 35 to 280mm (1.38 to 11.02")
 Overall length: 384mm (15.12")



Part No.	Description / Max Grip Size	Qty	List
C870-206	Large 12 Chain Clamp / 280mm (11.02")	1/ea	\$107.11

Burette Clamps

These clamps are constructed from aluminum and feature PVC covered spring jaws. Available in single and double versions, these clamps accept burettes up to 35mm O.D. and can be used with support rods up to 1/2" O.D.



Part No.	Description	Qty	List
C222-001	Single	1/ea	\$10.10
C222-002	Double	1/ea	\$14.06

Double Buret Clamp

Stainless steel electro-polished finish or nickel-plated zinc double buret clamp holds any size buret from micro to 100mL capacity. Simply compress the scissor-like mechanism, insert buret and gently release to grip. Numbers and graduation on buret remain easy to read. For height adjustments, recompress mechanism and slide buret up or down and gently release. Double buret clamp unit attaches to optional standard support rod with built-reinforced hook connector. Adjusting nut faces forward for easy use. Stainless steel or aluminum support rod attaches to optional porcelain base.

Clamp dimensions: 173 x 108mm (6.8 x 4.25")
 Material: Nickel-plated zinc construction
 Origin: Manufactured in the USA



Part No.	Description	Qty	List
C870-025	Double Buret Clamp	1/ea	\$73.15



SUPPORT STANDS

Support Stand with Rod

Stainless steel electro-polished finish or nickel-plated zinc Double Buret Clamp holds any size buret from micro to 100mL capacity. Simply compress the scissor-like mechanism, insert buret and gently release to grip. Numbers and graduation on buret remain easy to read. For height adjustments, recompress mechanism and slide buret up or down and gently release. Double buret clamp unit attaches to optional standard support rod with built-reinforced hook connector.

Adjusting nut faces forward for easy use. Stainless steel or aluminum support rod attaches to optional porcelain base.

Rodlength:	578mm (22.76")
Material:	Aluminum rod with porcelain base
Base dimensions:	178 x 330 x 25mm (7 x 13 x 1")
Rod diameter:	13mm (0.51")
Origin:	Manufactured in the USA



Part No.	Description	Qty	List
C870-140	Aluminum Rod w/Porcelain Base	1/ea	\$207.68
C870-428	Stainless Steel Stand w/Porcelain Base	1/ea	\$224.66

Support Stands

Molded polystyrene support stands are ideal for use in applications that require non-corrosive work surfaces. Heavy, weighted base provides stability similar to metal versions. The removable steel rod is coated with polypropylene to make it non-corrosive.

All of these models have a 30" rod length and a 1/2" rod diameter.



Part No.	Base Size	Qty	List
B724-753	6 x 9" w/Side Hole	1/ea	\$37.80
B724-754	8 x 12" w/Center Hole	1/ea	\$55.16
B724-755	8 x 12" w/Side Hole	1/ea	\$55.16

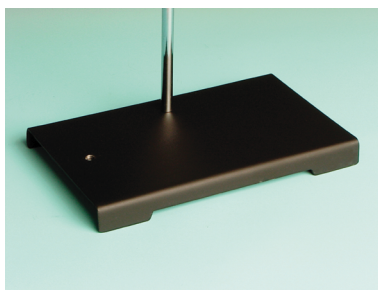
Each set contains a stamped steel base and a zinc-plated steel rod, along with 2, 3, 4 or 5 cast iron rings with clamps.



Part No.	Base Size	Rod L x D	Ring Size	Qty	List
S465-138	4 x 6"	18 x 5/16"	3", 4"	1/ea	\$53.27
S465-139	5 x 8"	20 x 3/8"	3", 4", 5"	1/ea	\$69.27
S465-141	6 x 9"	24 x 1/2"	3", 4", 5", 6"	1/ea	\$96.44
S465-140	6 x 11"	36 x 1/2"	2", 3", 4", 5", 6"	1/ea	\$112.65

With the these stands you have the option of Stamped Steel, Cast Iron and single or two-hole bases.

The bases range from 4 x 6" to 6 x 11" with rods from 18" to 36".



RINGS

Support Rings, Cast Iron

Cast iron, zinc-plated support ring with boss head clamp and thumbscrew. Distance from support to center of ring is 4-1/2" for all sizes.



Part No.	Description	Qty	List
S465-147	2" Diameter	1/ea	\$13.55
S465-148	3" Diameter	1/ea	\$7.90
S465-149	4" Diameter	1/ea	\$11.81
S465-150	5" Diameter	1/ea	\$21.85
S465-151	6" Diameter	1/ea	\$24.25
S465-152	7" Diameter	1/ea	\$26.70

LATTICE

Lattice Lab System, Set #1

The Lattice Lab System is a lightweight set of aluminum support rods and clamps that allows a wide range of lab apparatus to be assembled and securely supported. Assembly is easy and requires only a screwdriver. Support rods are made of hard aluminum and foot plates and hook connectors are made of cast alloy.



Contents:

Foot Plate, 2-5/16" diameter:	4
Set Screw for Foot Plate:	4
Anchoring Screw for Foot Plate:	12
Hook Connector with Thumbscrew:	22
Support Rod, 2" long, 1/2" diameter:	8
Support Rod, 18" long, 1/2" diameter:	2
Support Rod, 24" long, 1/2" diameter:	8

Part No.	Description	Qty	List
B725-366	Set #1	1/ea	\$191.31

Lattice Lab System, Set #3

This Lattice Lab System features an assortment of aluminum rods, including 10 rods that are 48" long. Assembly is easy and requires only a screwdriver. Support rods are made of hard aluminum and foot plates and hook connectors are made of cast alloy.



Contents:

Foot Plate, 2-5/16" diameter:	6
Set Screw for Foot Plate:	6
Anchoring Screw for Foot Plate:	18
Hook Connector with Thumbscrew:	42
Support Rod, 2" long, 1/2" diameter:	10
Support Rod, 18" long, 1/2" diameter:	3
Support Rod, 36" long, 1/2" diameter:	2
Support Rod, 48" long, 1/2" diameter:	10

Part No.	Description	Qty	List
B725-368	Set #3	1/ea	\$845.30

Lattice Lab System, Set #2

This Lattice Lab System features an assortment of aluminum rods from 18" to 48" long. Assembly is easy and requires only a screwdriver. Support rods are made of hard aluminum and foot plates and hook connectors are made of cast alloy.



Contents:

Foot Plate, 2-5/16" diameter:	4
Set Screw for Foot Plate:	4
Anchoring Screw for Foot Plate:	12
Hook Connector with Thumbscrew:	26
Support Rod, 2" long, 1/2" diameter:	8
Support Rod, 18" long, 1/2" diameter:	2
Support Rod, 24" long, 1/2" diameter:	5
Support Rod, 36" long, 1/2" diameter:	2
Support Rod, 48" long, 1/2" diameter:	4

Part No.	Description	Qty	List
B725-367	Set #2	1/ea	\$554.50

Lattice Lab System, Set #4

This Lattice Lab System set features aluminum rods up to 72" long. Assembly is easy and requires only a screwdriver. Support rods are made of hard aluminum and foot plates and hook connectors are made of cast alloy.



Contents:

Foot Plate, 2-5/16" diameter:	8
Set Screw for Foot Plate:	8
Anchoring Screw for Foot Plate:	24
Hook Connector with Thumbscrew:	49
Support Rod, 2" long, 1/2" diameter:	6
Support Rod, 12" long, 1/2" diameter:	6
Support Rod, 24" long, 1/2" diameter:	2
Support Rod, 48" long, 1/2" diameter:	7
Support Rod, 72" long, 1/2" diameter:	5

Part No.	Description	Qty	List
B725-369	Set #4	1/ea	\$1060.60



Small Lab-Frame, 24 x 24"

Vertically mounted, great for glassware set-ups in small laboratories or where space is limited. Frame measures 24 x 24" (610 x 610mm). Base is 18" (457mm) wide for stability. Base may be permanently mounted to bench top with screws (included). Available with Aluminum or Stainless Steel rods with nickel-plated zinc connectors and lab-frame feet.

Component 1:	(8) 2" (51mm) rods	Component 6:	(4) Lab-Frame Feet
Component 2:	(2) 18" (457mm) rods	Component 3:	(8) 24" (610mm) rods
Component 4:	(18) S-Connectors		
Size:	Small	Origin:	Manufactured in the USA
Frame Dimensions:	24 x 24" (610 x 610mm)		



Part No.	Description	Qty	List
C870-127	Small Frame w/Aluminum Rods	1/ea	\$533.04
C870-157	Small Frame w/Stainless Steel Rods	1/ea	\$113.65

Medium Lab-Frame, 24 x 48", Stainless Steel

Horizontal or vertical mounting, convenient for distillation or general set-up. Frame measures 24 x 48" (610 x 1219mm). Base is 18" (457mm) wide for stability. Material: Stainless steel rods with nickel-plated zinc connectors and lab-frame feet.

Component 1:	(8) 2" (51mm) rods	Component 6:	(4) Rod End Connectors
Component 2:	(2) 18" (457mm) rods	Component 7:	(4) Lab-Frame Feet
Component 3:	(7) 24" (610mm) rods	Component 4:	(4) 48" (1219mm) rods
Size:	Medium	Origin:	Manufactured in the USA
Frame Dimensions:	24 x 48" (610 x 1219mm)		



Part No.	Description	Qty	List
C870-152	Medium Frame w/Stainless Steel Rods	1/ea	\$1292.76

Large Lab-Frame, 48 x 48", Stainless Steel

This 48 x 48" (1219 x 1219mm) frame is ideal for complex glassware setups. Base is 18" (457mm) wide for stability. Stainless steel rods with nickel-plated zinc connectors and lab-frame feet

Component 1:	(10) 2" (51mm) rods	Component 6:	(4) Rod End Connectors
Component 2:	(3) 18" (457mm) rods	Component 7:	(6) Lab-Frame Feet
Component 3:	(2) 36" (914mm) rods	Component 4:	(10) 48" (1219mm) rods
Size:	Large	Origin:	Manufactured in the USA
Frame Dimensions:	48 x 48" (1219 x 1219mm)		



Part No.	Description	Qty	List
C870-153	Large Frame w/Stainless Steel Rods	1/ea	\$1824.57

Lattice Accessories

Lattice Lab Rod Connector

This aluminum connector is used to attach two aluminum rods together. 12.9mm inner diameter. Includes two set screws and an Allen key.



Part No.	Description	Qty	List
B725-377	Rod Connector	1/ea	\$24.35

Frame Connector

Angled adjustment screws allow easy set-up and prevent misalignment. Smooth, rounded surfaces are easy-to-clean. Bright, dipped aluminum finish sealed with silicon for maximum protection against corrosion.



Part No.	Min to Max Grip Size	Qty	List
C870-079	0 to 13mm (0 to 0.51")	12/pk	\$244.26

Lattice Lab Accessories

Components from Lattice Lab Sets are available individually so sets can be expanded to accommodate customized needs.



Part No.	Description	Qty	List
B725-370	Hook Connector, Aluminum	1/ea	\$11.55
B725-371	Foot Plate	1/ea	\$12.05
B725-372	Aluminum Rod, 2" long	1/ea	\$4.55
B725-373	Aluminum Rod, 24" long	1/ea	\$21.20
B725-374	Aluminum Rod, 36" long	1/ea	\$36.95
B725-375	Aluminum Rod, 48" long	1/ea	\$50.15
B725-376	Aluminum Rod, 72" long	1/ea	\$66.45

CLEANERS & DETERGENTS

Alconox Powdered Precision Cleaner

Concentrated, anionic detergent for manual and ultrasonic cleaning. Free rinsing to give you reliable results without interfering residues. Ideal for cleaning contaminants from glassware, metals, plastics, ceramic, porcelain, rubber and fiberglass. Excellent replacement for corrosive acids and hazardous solvents. USDA authorized. Dilute 1:100. pH 9.5



Part No.	Description	Qty	List
D102-100	9 x 4lbs Box	9/cs	\$422.40
D102-109	25 lb box (11Kg)	1/ea	\$287.29
D102-110	50 lb box (22.5Kg)	1/ea	\$536.18

Liquinox Critical Cleaning Liquid Detergent

Concentrated, anionic phosphate free, detergent for manual and ultrasonic cleaning. Free rinsing to give you reliable results without interfering residues. Extremely mild and completely soluble in hard and soft water. USDA authorized. Dilute 1:100. pH 8.5



Part No.	Description	Qty	List
D102-102	4 x 1 Gal.	1/ea	\$145.78
D102-106	12 x 1 Qts (12 x 0.95L)	12/cs	\$305.78
D102-134	15 Gal. Drum (57L)	1/ea	\$1029.69
D102-135	55 Gal. Drum (208L)	1/ea	\$3299.55

Alcojet Low Foaming Powdered Detergent

Nonionic, low foaming powder cleaner for use in labware washers, parts washers, power-spray systems, manual and ultrasonic cleaning. Corrosion inhibited formula recommended for glassware, metals, plastic, ceramic, porcelain, rubber and fiberglass. Free rinsing for reliable results and no interfering residues. USDA authorized. Dilute 1:200. pH 12



Part No.	Description	Qty	List
D102-105	9 x 4 lbs Box	9/cs	\$379.73
D102-103	25 lb Box (11Kg)	1/ea	\$254.58

Tergazyme – Enzyme Active Powered Detergent

Concentrated, anionic detergent with protease enzyme for manual and ultrasonic cleaning. Excellent for removal of proteinaceous soils, tissue, blood and body fluids from glassware, metals, plastic, ceramic, porcelain, rubber and fiberglass with no interfering residues. Ideal as a cleaning agent in Reverse Osmosis and Ultra-Filtration Systems. USDA authorized. Dilute: 1:100. pH 9.5



Part No.	Description	Qty	List
D102-101	9 x 4 lb Box (9 x 1.8Kg)	9/cs	\$450.84
D102-120	25 lb Box (11Kg)	1/ea	\$284.44

Citranox Liquid Acid Cleaner & Detergent

Phosphate free, concentrated cleaner and metal brightener for high performance removal of metal oxides, scale, salts and inorganic residues in manual and ultrasonic cleaning. Corrosion inhibited and free rinsing for reliable results and no interfering residues. Ideal for trace metal analysis. USDA authorized. Dilute 2:100. pH 2.5.



Part No.	Description	Qty	List
D102-104	4 x 1 Gallon	1/ea	\$120.60
D102-149	55 Gallon Drum (208L)	1/ea	\$3409.07

Solujet Low Foaming Phosphate Free Detergent

Nonionic, low foaming phosphate free liquid cleaner for use in labware washers, manual and ultrasonic cleaning. Corrosion inhibited formula recommended for glassware, metals, plastic, ceramic, porcelain, rubber and fiberglass. Free rinsing for reliable results and no interfering residues. Passes inhibitory residue test. Dilute 1:200. pH 12.



Part No.	Description	Qty	List
D102-107	4 x 1 Gal.	1/ea	\$121.48
D102-162	5 Gal.(19L) Jerrycan (Air OK)	1/ea	\$354.13
D102-164	30 Gal. Drum (114L)	1/ea	\$1817.60
D102-165	55 Gal. Drum (208L)	1/ea	\$3148.80

Luminox – Low Foaming Neutral Cleaner

Low foaming, neutral pH detergent for use in manual, ultrasonic and machine cleaning. Safe-handling detergent used for non-corrosive cleaning without chelation or alkalinity waste treatment problems. Recommended for aluminum and soft metal, medical devices, pharmaceutical equipment, alkaline sensitive labware and medical instruments in aluminum trays. Free rinsing, eliminating interfering residues. Dilute 3:100. pH 7



Part No.	Description	Qty	List
D102-151	4 x 1 Gal. (4 x 3.8L)	4/cs	\$402.48
D102-153	15 Gal. Drum (57L)	1/ea	\$1251.56
D102-154	15 Gal. Drum (57L)	1/ea	\$4087.47

Citrajel – Low Foaming Acid Cleaner

Low foaming, phosphate-free, concentrated, liquid cleaner and metal brightener for high performance removal of metal oxides, scales, salts and inorganic residues in labware washers, parts washers, power-spray systems and manual and ultrasonic cleaning. Corrosion inhibited and free rinsing leaving no interfering residues. Ideal for acid washing and rinsing. Dilute 2:100 pH 2.5



Part No.	Description	Qty	List
D102-156	4 x 1 Gal. (4 x 3.8L)	4/cs	\$280.18
D102-157	5 Gal. Jerrycan (19L)	1/ea	\$344.18



Alcotabs

Critical Cleaning Detergent Tablets: Effervescent detergent tablet for maximum cleaning in syphon pipette washers to clean pipettes and tubes. Slow release bubble action and free rinsing produce reliable results and no interfering residues. USDA authorized. pH 6.5



Part No.	Description	Qty	List
D102-125.....	6 x 100 Tablet Bottles.....	6/cs	\$260.27

Detojet – Low Foaming Liquid Detergent

Low foaming, heavy duty alkaline detergent for use in labware washers, parts washers, power-spray systems and ultrasonic cleaning systems. Concentrated, highly emulsifying and penetrating formula is free rinsing and leaves no interfering residues. Protects interior working parts of washers. USDA authorized. Dilute 1:200. pH 12.4



Part No.	Description	Qty	List
D102-137.....	12 x 1 Qts (12 x 0.95L).....	12/cs	\$236.09
D102-139.....	4 x 1 Gal. (4 x 3.8L).....	4/cs	\$265.96
D102-140....	5 Gal. Jerrycan (19L) Air OK.....	1/ea	\$322.84

SoftCIDE™ -NA Plain Hand Soap

Thermo Scientific™ Related applications: Anatomical Pathology. Specifically formulated with emollients to help soften the skin. High sudsing formula washes away grease, oil, dirt and harmful bacteria. Recommended for low- to medium-duty soil in commercial, healthcare and industrial areas. Effectively yet mildly wash away bacteria with Thermo Scientific™ SoftCIDE™-NA Plain Hand Soap.



Part No.	Description	Qty	List
M345-125	Pump Bottle, 32 oz.....	1/ea	\$19.35

SoftGUARD™ Extra-Strength Barrier Hand Cream

Thermo Scientific™ Related applications: Anatomical Pathology. Prevent skin irritation caused by frequent washing and gloving. Thermo Scientific™ SoftGUARD Extra-Strength Barrier Hand Cream protects and moisturizes, allowing damaged skin to heal. Unique barrier feature helps prevent the occlusion of the skin. Compatible with latex, nitrile, vinyl, PCMX, CHG and antimicrobial soap—petroleum- and mineral oil-free. Utilizes an extra-strength antimicrobial preservative to prevent cross-contamination. Absorbs immediately. Nongreasy, fragrance-free and pH balanced with the skin.



Part No.	Description	Qty	List
M345-113.....	Pump Bottle, 16 oz.....	1/ea	\$36.98
M345-116.....	Tube, 3 oz.....	12/cs	\$90.46

Detergent 8 – Low Foaming Phosphate Free Detergent

Nonionic, detergent for labware washers, PC board washers, power-spray systems, ultrasonic and manual cleaning. Removes oils, resins rosins and fluxes from PC circuit boards, electronic parts, phosphate sensitive labware and nuclear contaminated equipment with no interfering conductive residues. Excellent replacement for solvent cleaning. Dilute 3:100. pH 11



Part No.	Description	Qty	List
D102-127.....	4 x 1 Gal. (4 x 3.8L).....	4/cs	\$553.24

Tergajet – Low Foaming Phosphate Free Powdered Detergent

Nonionic, low foaming phosphate free powdered cleaner for use in labware washers, manual and ultrasonic cleaning. Corrosion inhibited formula recommended for glassware, metals, plastic, ceramic, porcelain, rubber and fiberglass. Free rinsing for reliable results and no interfering residues. Passes inhibitory residue test Dilute 1:200. pH 11.5



Part No.	Description	Qty	List
D102-167....	9 x 4 lb Box (9 x 1.8Kg).....	9/cs	\$403.02
D102-168.....	25 lb Box (11Kg).....	1/ea	\$273.07

AlcoSCRUB™ Instant Antiseptic Hand Cleanser

Thermo Scientific™ Related applications: Anatomical Pathology. Meets CDC guidelines. Formulated with emollients to be gentle on skin. 99.99% effective against a broad spectrum of microorganisms. Kill bacteria within 15 seconds using specially formulated Thermo Scientific™ AlcoSCRUB™ Instant Antiseptic Hand Cleanser, for use when soap and water are not available.



Part No.	Description	Qty	List
M345-130	Pump Bottle, 16 oz.....	12/cs	\$142.68
M345-129	Squeeze Bottle, 4 oz.....	12/cs	\$111.46
M345-132	Pump bottle, 32 oz.....	12/cs	\$162.38

Aquet Detergent for Glassware and Plastics

Phosphate-Free Liquid Detergent with Neutral pH. Safe for glassware, plastics and surfaces, this phosphate-free, nonionic surfactant will not etch or mar precision glassware. It rinses quickly and dries without wiping. Convenient, pre-portioned pouches make one gallon of 1% solution. 3.8 liter (1 gallon) bottle comes with 473ml (16oz) working solution dispenser bottle. 20 liter (5 gallon) Cubitainer™ for frequent users. Not for use in automatic dishwashers.



Part No.	Description	Qty	List
M440-320.....	20mL pouch makes one gal.	20/pk	\$80.03
M440-321	1 Gal.....	1/ea	\$81.08
M440-322	20 liter Cubitainer™.....	1/ea	\$293.03

DESICCANTS

Regular Drierite

Regular Drierite is anhydrous calcium sulfate. It is of neutral pH, constant in volume, chemically inert except toward water, insoluble in organic liquids and refrigerants, non-disintegrating, non-wetting, non-toxic, non-corrosive, non-channeling, generally recognized as safe (GRAS) by the FDA, not regulated by OSHA, economical to use and can be regenerated repeatedly for reuse.

Typical analysis >99.5% CaSO₄



Part No.	Description	Qty	List
D200-000	1 lb Bottle, size 4 mesh	1/ea	\$12.50
D200-001	5 lb Bottle, size 4 mesh	1/ea	\$51.24
D200-005	5 lb Bottle, size 6 mesh	1/ea	\$51.24
D200-009	1 lb Bottle, size 8 mesh	1/ea	\$13.14
D200-011	25 lb Metal Can, size 8 mesh	1/ea	\$163.95
D200-012	50 lb Metal Drum, size 8 mesh	1/ea	\$309.29
D200-013	1 lb Bottle, size 10-20 mesh	1/ea	\$13.14
D200-014	5 lb Bottle, size 10-20 mesh	1/ea	\$51.24

Indicating Drierite

Indicating Drierite is impregnated with cobalt chloride. Indicating DRIERITE is blue when dry and changes to pink upon absorption of moisture. The color change is pronounced and clearly visible. This makes Indicating DRIERITE valuable when it is necessary to know with certainty that dryness is being maintained and to signal when the drying agent should be replaced. It has the same efficiency as Regular DRIERITE and somewhat greater capacity due to the desiccating effect of the cobalt chloride.* It can be regenerated repeatedly for reuse.

≥98% CaSO₄, <2% CoCl₂

* It should be noted that Indicating DRIERITE should not be used for the drying of ammonia, NH₃, since ammonia reacts with inorganic chlorides.



Part No.	Description	Qty	List
D200-022	1 lb Bottle, size 4 mesh	1/ea	\$23.36
D200-023	5 lb Bottle, size 4 mesh	1/ea	\$119.33
D200-025	1 lb Bottle, size 6 mesh	1/ea	\$26.36
D200-026	5 lb Bottle, size 6 mesh	1/ea	\$119.33
D200-029	25 lb Metal Can, size 8 mesh	1/ea	\$383.69
D200-030	1 lb Bottle, size 10-20 mesh	1/ea	\$27.43

Drierite Desiccant Bags

These non-woven bags containing DRIERITE are used to completely dry the air within a package or container during shipment or storage. The disposable packets are dust tight and will protect enclosures for many months when used within an adequate moisture barrier. These desiccant bags are approved by the FDA and DRIERITE is Generally Recognized As Safe (GRAS).

Every box of DRIERITE Desiccant Bags comes with a 30% Relative Humidity card that changes from blue to pink when the bags are no longer active.

DRIERITE desiccant bags are filled with DRIERITE (anhydrous calcium sulfate). Available in white TYVEK® or brown kraft paper. Held together by heat seals.

A DRIERITE desiccant bag will reduce the humidity in a sealed enclosure to a -100° F dew point in about 10 hours or less. Materials packaged with these desiccant bags are protected from corrosion and other harmful effects of moisture contamination. DRIERITE bags leave behind less residual moisture than most other types of desiccant bags. DRIERITE also performs well at elevated temperatures and will not release absorbed moisture at less than 350° F. This is an important consideration when shipping products during variable weather conditions.

Volume of moisture tight container.

For containers or bags larger than those listed, use multiple DRIERITE bags. This table takes into account water in the airspace inside the package only. If the contents contain additional water, more desiccant is required.

TYVEK® Desiccant Bags - White



Part No.	Description	Qty	List
D200-073	3 grams, 1 x 1.8"	750/pk	\$102.43
D200-075	6 grams, 1 x 2.6"	750/pk	\$130.01
D200-071	1 ounce, 3 x 4"	200/pk	\$58.22
D200-072	2 ounces, 3 x 5"	400/pk	\$149.44
D200-074	4 ounces, 4 x 5.5"	200/pk	\$113.92
D200-076	8 ounces, 6 x 6"	100/pk	\$99.24



DISSECTING TOOLS

Dissecting Kits

Dissecting Kit 6-Pieces

Bent dissecting needle.
 Glass pipet with rubber bulb.
 4 1/2" (114mm) dissecting scissors, straight sharp points.
 Dissecting scalpel - length 6" (150mm) cutting edge 1 1/2" (38mm).
 4 1/2" (114mm) dissecting forceps with straight fine serrated tips.
 Plastic ruler - 6" (150mm) Inch - centimeter and millimeter divisions.

Part No.	Description	Qty	List
M900-341	Dissecting Kit 6-Pieces	1/ea	\$42.67

Dissecting Kit 8-Pieces

4 1/2" (114mm) Dissecting forceps with curved fine serrated tips.
 Bent dissecting needle.
 Straight dissecting needle.
 Glass pipet with rubber bulb.
 4 1/2" (114mm) Dissecting forceps with straight fine serrated tips.
 Dissecting scalpel - length 6" (152mm) - cutting edge 1 1/2" (38mm).
 4 1/2" (114mm) Dissecting scissor, sharp straight points.
 Plastic ruler 6" (150mm) 1/16" divisions centimeter and millimeter divisions.

Part No.	Description	Qty	List
M900-343	Dissecting Kit 8-Pieces	1/ea	\$54.33

Dissecting Kit 9-Pieces

2-Dissecting Scalpel - Length 6" (150mm) cutting edge 1 1/2" (38mm).
 Tenaculum.
 4 1/2" (114mm) Dissecting forceps with straight fine serrated tips.
 Blowpipe.
 Hooks and chains.
 4 1/2" (114mm) Dissecting scissors, Straight sharp points.
 Cartilage knife.
 Plastic Ruler - 6" (150mm) Inch - Centimeter and millimeter divisions.

Part No.	Description	Qty	List
M900-342	Dissecting Kit 9-Pieces	1/ea	\$71.00

Deluxe Dissecting Set of 14 with Dissecting Tray

A convenient starter set, includes our popular Instruments Set and one Dissecting Tray.
 The tray includes a layer of white wax and measures 11.5" x 7.5" x 2".

Part No.	Description	Qty	List
T660-203	Dissecting Instruments, Deluxe Set of 14 with Dissecting Tray	1/ea	\$116.10

Deluxe Dissecting Set of 14

Deluxe set of stainless steel dissecting instruments in a zippered vinyl case.

Contains 1 each of the following:

Scale, 6"	Forceps, Blunt, 5"
Forceps, Sharp, Straight, 4"	Needle, Arrow
Needle, Sharp, Straight	Mall & Probe Seeker
Scalpel w/ fixed blade, 5"	Scissors, Blunt/Sharp, 5"
Scissors, Sharp, 4"	Scalpel Handle, #4 w/ Blade
Teasing Needle w/ Plastic Handle	Spatula
Needle, Angular, Blunt	Dropper

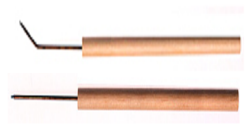
Part No.	Description	Qty	List
T660-199	Dissecting Instruments, Deluxe Set of 14	1/ea	\$83.85



Dissecting Needles

Dissecting Needle with Wooden Handle

Part No.	Description	Qty	List
M900-324	5 3/4", Straight Needle	1/ea	\$18.33
M900-325	5 1/2", Curved Needle	1/ea	\$18.33



Forceps

Gooseneck Forceps

Style: Serrated



Part No.	Size/Length	Qty	List
M900-155	6"	1/ea	\$16.33

Curved Forceps

Style: Medium Fine,
Curved Smooth Points



Part No.	Size/Length	Qty	List
M900-157	6"	1/ea	\$15.33
M900-158	6"	5/pk	\$75.66

Filter Forceps

Style: Polypropylene Finger Grips &
Straight Flat Tips



Part No.	Size/Length	Qty	List
M900-160	4 1/2"	1/ea	\$10.00

Specimen Forceps

Style: Serrated Tips



Part No.	Size/Length	Qty	List
M900-162	4 1/2"	1/ea	\$8.33
M900-163	5 1/2"	1/ea	\$10.00
M900-164	6"	1/ea	\$11.67
M900-165	8"	1/ea	\$17.00
M900-166	10"	1/ea	\$23.33
M900-167	12"	1/ea	\$32.00
M900-168	20"	1/ea	\$63.67

Waugh Forceps

Style: With 1 x 2 teeth and guide pin



Part No.	Size/Length	Qty	List
M900-181	8"	1/ea	\$31.67

Very Fine Point Forceps

Style: Straight or Curved Very Fine Tips and
Smooth Spring Action



Part No.	Size/Length	Qty	List
M900-182	4 1/4" / Straight	1/ea	\$34.00
M900-183	4 1/2" / Curved	1/ea	\$31.67

Balance Forceps

Style: Plastic Tips



Item #	Size/Length	Qty	List
M900-156	4"	1/ea	\$10.67

Micro-Adson Forceps

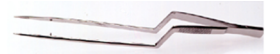
Style: Fine Serrated Jaws



Part No.	Size/Length	Qty	List
M900-159	4 3/4"	1/ea	\$36.67

Sharp Point Forceps

Style: Sharp Points



Part No.	Size/Length	Qty	List
M900-161	7 1/4"	1/ea	\$44.67

Dumont Forceps

Style: Very Sharp and Fine Points



Part No.	Size/Length	Qty	List
M900-169	4 3/4"	1/ea	\$21.67

Student Forceps

Style: Blunt Serrated Tips



Part No.	Size/Length	Qty	List
M900-170	5"	1/ea	\$6.33

Reverse Action Forceps

Style: Sharp, Smooth Points



Part No.	Size/Length	Qty	List
M900-172	5"	1/ea	\$8.40

Tissue Forceps

Style: With 1 x 2 teeth



Part No.	Size/Length	Qty	List
M900-174	4 1/2"	1/ea	\$14.00
M900-175	5"	1/ea	\$21.33
M900-176	5 3/4"	1/ea	\$28.33
M900-177	6"	1/ea	\$29.00
M900-178	8"	1/ea	\$39.00
M900-179	10"	1/ea	\$37.67
M900-180	12"	1/ea	\$42.67

Plastic Forceps, PP

These 4.5" long polypropylene forceps feature serrated inside tips and ribbed finger supports. Non-sterile, autoclavable.



Part No.	Description	Qty	List
C221-884	Plastic Forceps, PP	1/ea	\$1.55



Jaw Forceps

Style: Straight or Curved With Guide Pin



Part No.	Size/Length	Qty	List
M900-184	8" / Straight, Smooth	1/ea	\$28.33
M900-185	8" / Curved, Serrated	1/ea	\$29.33

Diffenbach Serrafine Forceps

Style: Straight or Curved, Serrated Blunt Rounded Tips



Part No.	Size/Length	Qty	List
M900-186	2 1/4" / Straight	1/ea	\$11.33
M900-187	2 1/4" / Curved	1/ea	\$11.33

Dissecting Forceps

Style: Straight or Curved, Fine Point, Serrated Tips



Part No.	Size/Length	Qty	List
M900-188	4 1/2" / Straight	1/ea	\$8.67
M900-189	4 1/2" / Curved	1/ea	\$9.00

Cushing Forceps

Style: Straight Serrated Tips



Part No.	Size/Length	Qty	List
M900-190	7"	1/ea	\$23.33
M900-191	8"	1/ea	\$25.00
M900-192	9"	1/ea	\$27.00
M900-193	10"	1/ea	\$28.33

Mosquito Forceps

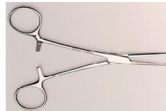
Style: Straight or Curved Halstead



Part No.	Size/Length	Qty	List
M900-196	5" / Straight	1/ea	\$45.00
M900-197	5" / Curved	1/ea	\$46.00
M900-198	3 1/2" / Straight	1/ea	\$30.00
M900-199	3 1/2" / Curved	1/ea	\$30.33

Kelly Forceps

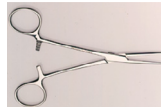
Style: Straight or Curved Kelly



Part No.	Size/Length	Qty	List
M900-200	5 1/2" / Straight	1/ea	\$27.33
M900-201	5 1/2" / Curved	1/ea	\$33.00

Kelly Forceps

Style: Straight or Curved Rankin Kelly



Part No.	Size/Length	Qty	List
M900-202	6 1/4" / Straight	1/ea	\$35.33
M900-203	6 1/4" / Curved	1/ea	\$38.00

Specimen Forceps

Style: Long Serrated Fine Tips



Part No.	Size/Length	Qty	List
M900-194	10 1/4"	1/ea	\$52.33

Rochester Ochsner Forceps

Style: Straight or Curved, Box-lock Joints and Serrated Jaws



Part No.	Size/Length	Qty	List
M900-204	5 1/2" / Straight	1/ea	\$40.67
M900-205	5 1/2" / Curved	1/ea	\$41.67
M900-206	6 1/4" / Straight	1/ea	\$46.00
M900-207	6 1/4" / Curved	1/ea	\$48.33
M900-208	7 1/4" / Straight	1/ea	\$54.00
M900-209	7 1/4" / Curved	1/ea	\$55.00
M900-210	8" / Straight	1/ea	\$60.67
M900-211	8" / Curved	1/ea	\$61.67

Rochester - Pean Forceps

Style: Straight or Curved, Box-lock Joints and Serrated Jaws



Part No.	Size/Length	Qty	List
M900-212	5 1/2" / Straight	1/ea	\$35.67
M900-213	5 1/2" / Curved	1/ea	\$38.00
M900-214	6 1/4" / Straight	1/ea	\$40.33
M900-215	6 1/4" / Curved	1/ea	\$43.00
M900-216	7 1/4" / Straight	1/ea	\$47.33
M900-217	7 1/4" / Curved	1/ea	\$48.33
M900-218	8" / Straight	1/ea	\$53.67
M900-219	8" / Curved	1/ea	\$55.33

Artery Pean Forceps

Style: Serrated Grip at the Tips



Part No.	Size/Length	Qty	List
M900-220	5 1/2"	1/ea	\$20.33

Occluding Forceps

Style: Smooth Jaw and Box-lock Joints



Part No.	Size/Length	Qty	List
M900-221	5 1/2"	1/ea	\$43.00
M900-222	7"	1/ea	\$47.00

Sponge Forceps

Style: Straight or Curved Ballenger or Foerster



Part No.	Size/Length	Qty	List
M900-223	7"/Straight / Ballenger	1/ea	\$50.00
M900-224	7"/Curved / Ballenger	1/ea	\$50.33
M900-225	9 1/2"/Straight / Foerster	1/ea	\$64.00
M900-226	9 1/2"/Curved / Foerster	1/ea	\$65.00

Other Scalpels & Blades are available.

Needle Holder

Mayo Hegar Needle Holder

Material Stainless Steel



Part No.	Description	Qty	List
M900-227	6"	1/ea	\$43.33
M900-228	7"	1/ea	\$55.00
M900-229	8"	1/ea	\$64.33

Scalpel Blades & Handles

Scalpel Blades

Stainless steel, sterile, individual sealed blades, to fit handles #3, #3L, #4, #4L and #7.



Part No.	Description	Qty	List
M900-290	Blade No. 10	100/pk	\$191.67
M900-292	Blade No. 11	100/pk	\$191.67
M900-294	Blade No. 12	100/pk	\$191.67
M900-296	Blade No. 15	100/pk	\$191.67
M900-298	Blade No. 20	100/pk	\$191.67
M900-300	Blade No. 21	100/pk	\$191.67
M900-302	Blade No. 22	100/pk	\$191.67
M900-304	Blade No. 23	100/pk	\$191.67
M900-306	Blade No. 24	100/pk	\$191.67

Scissors - Stainless Steel

Baby Metzenbaum Scissor

Type: Straight or Curved, Very Delicate



Part No.	Size/Length	Qty	List
M900-233	5 3/4" / Straight	1/ea	\$35.00
M900-239	5 3/4" / Curved	1/ea	\$150.00
M900-240	7" / Curved	1/ea	\$148.33

Castro-Viejo Scissor

Type: Angled, Curved or Straight, Short Delicate with Spring Handle



Part No.	Size/Length	Qty	List
M900-238	4" / Angled Sideways	1/ea	\$146.67
M900-239	4 1/2" / Curved on Flat	1/ea	\$150.00
M900-240	4 1/2" / Straight	1/ea	\$148.33

Dissecting Scissor

Type: Curved or Straight



Part No.	Size/Length	Qty	List
M900-243	4 1/2" / Curved / Sharp/Sharp	1/ea	\$9.67
M900-244	4 1/2" / Straight / Sharp/Sharp	1/ea	\$10.00
M900-245	4 1/2" / Straight / Sharp/Sharp	1/ea	\$9.67
M900-246	4 1/2" / Straight / Sharp/Blunt	1/ea	\$11.33
M900-247	5 1/2" / Straight / Sharp/Blunt	1/ea	\$17.33

Grab a tray and keep your products sterilized!

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Scalpel Handles Series 300

Stainless steel handle to fit blades #10, #11, #12, #15, #20, #21, #22, #23 and #24.



Part No.	Style / Fits Blade	Qty	List
M900-308	#3 / 10, 11, 12, 15	1/ea	\$19.67
M900-309	#3L / 10, 11, 12, 15	1/ea	\$45.67
M900-310	#7 / 10, 11, 12, 15	1/ea	\$27.33
M900-311	#4 / 20, 21, 22, 23, 24	1/ea	\$23.33
M900-312	#4L / 20, 21, 22, 23, 24	1/ea	\$46.33



Doyen Scissor

Type: With Two Heavy Blunt Points



Part No.	Size/Length	Qty	List
M900-236	7" / Straight	1/ea	\$40.67
M900-237	7" / Curved	1/ea	\$41.67

Yasargil Bayonet Scissor

Type: Straight or Curved with Spring Handle



Part No.	Size/Length	Qty	List
M900-241	8" / Straight	1/ea	\$143.33
M900-242	8" / Curved	1/ea	\$148.33

IRIS Scissor

Type: Angular



Part No.	Size/Length	Qty	List
M900-248	4 1/2", 2 Fine Points	1/ea	\$16.00
M900-249	4 1/2", 1 Probe Point, 1 Fine Point	1/ea	\$52.00

IRIS Scissor

Type: Straight or Curved



Part No.	Size/Length	Qty	List
M900-250	4 1/2" / Straight / 2 Fine Points	1/ea	\$32.33
M900-251	4 1/2" / Curved / 2 Curved Fine Points	1/ea	\$32.33



Lister Bandage Scissor

Type: Angular with One Rounded Tip and One Flattened Probe Tip



Part No.	Size/Length	Qty	List
M900-252	3 1/2"	1/ea	\$17.33
M900-253	4 1/2"	1/ea	\$19.67
M900-254	5 1/2"	1/ea	\$25.00
M900-255	7 1/2"	1/ea	\$39.00

Mayo Dissecting Scissor

Type: Straight or Curved



Part No.	Size/Length	Qty	List
M900-256	5 1/2" / Straight	1/ea	\$24.33
M900-257	5 1/2" / Curved	1/ea	\$25.67
M900-258	6 3/4" / Straight	1/ea	\$30.00
M900-259	6 3/4" / Curved	1/ea	\$31.67

Operating Scissor

Type: Straight or Curved



Part No.	Size/Length	Qty	List
M900-260	4 1/2" / Straight / Blunt/Blunt	1/ea	\$21.33
M900-261	4 1/2" / Curved / Sharp/Blunt	1/ea	\$22.00
M900-262	4 1/2" / Curved / Blunt/Blunt	1/ea	\$22.67
M900-263	5" / Straight / Sharp/Blunt	1/ea	\$25.33
M900-264	5" / Curved / Sharp/Sharp	1/ea	\$37.33
M900-265	5 1/2" / Curved / Sharp/Blunt	1/ea	\$30.00
M900-266	5 1/2" / Straight / Sharp/Sharp	1/ea	\$28.33
M900-267	5 1/2" / Curved / Sharp/Sharp	1/ea	\$30.00
M900-268	5 1/2" / Straight / Blunt/Blunt	1/ea	\$28.33
M900-269	5 1/2" / Curved / Blunt/Blunt	1/ea	\$30.00
M900-270	6" / Straight / Sharp/Sharp	1/ea	\$31.67
M900-271	6 1/2" / Straight / Sharp/Blunt	1/ea	\$35.67
M900-272	6 1/2" / Curved / Sharp/Blunt	1/ea	\$34.00
M900-273	6 1/2" / Straight / Sharp/Sharp	1/ea	\$35.67
M900-274	6 1/2" / Curved / Sharp/Sharp	1/ea	\$35.67
M900-275	6 1/2" / Straight / Blunt/Blunt	1/ea	\$34.00
M900-276	6 1/2" / Curved / Blunt/Blunt	1/ea	\$35.67
M900-277	5 1/2" / Left Handed - Straight Sharp/Blunt	1/ea	\$37.67

Seeker / Probe

Seeker/Probe

Type: Single or Double Cutting Edge



Part No.	Length / Style	Qty	List
M900-318	5 5/8" / Single	1/ea	\$11.33
M900-319	5 5/8" / Double	1/ea	\$11.67

Seeker/Probe

Type: One end tapered to a point and one end curved with rounded tip



Part No.	Length / Style	Qty	List
M900-320	6"	1/ea	\$12.00
M900-321	6"	3/pk	\$36.00

Seeker/Probe

Type: Fine Point Curved Tip



Part No.	Length / Style	Qty	List
M900-322	5"	1/ea	\$11.67
M900-323	5"	3/pk	\$35.00

Ask us about
sterilization pouches!

Dissecting Trays

Dissecting Trays

Dissecting trays are made of durable stainless steel and include a layer of white wax. Available in four sizes.

Part No.	Description	Qty	List
T660-192	11.5 x 7.5 x 2"	1/ea	\$33.05
T660-193	12 x 10 x 2"	1/ea	\$41.70
T660-194	12.75 x 9.25 x 2"	1/ea	\$51.45
T660-195	16 x 12.75 x 2"	1/ea	\$74.15



FOIL

Super Polyfoil Wrap

Autoclaving wrap, cover sheet and chemical barrier.

Polyester backed foil provides a chemically inert barrier to cover vessels for autoclaving, incubating or storage.

Thermoplastic layer is laminated to 1mil foil.

Folds easily; flattens without kinking.

Resistant to punctures, tears and corrosion.

Polyester film blocks pinholes and resists organic solvents and caustic agents; complies with FDA regulations governing direct food contact applications.



Part No.	Size	Qty	List
M440-005	10.2 x 10.2cm (4 x 4")	100/pk	\$51.98
M440-006	13 x 13.0cm (5 1/8 x 5 1/8")	100/pk	\$67.43
M440-007	20.3 x 20.3cm (8 x 8")	100/pk	\$89.40

Foil Cover-Alls

Stop wasting time and money on rolls of aluminum foil.

Economical and disposable covers provide dust-free storage of clean labware.

Pre-formed to quickly cover a wide variety of labware using only one hand.

Great for use in centralized washing areas where cleaned labware needs to be transported back to the lab while remaining clean and contaminant-free.

Provides a temporary, sterile boundary for autoclave sterilization of labware.

Available in three sizes.



Part No.	Diameter At Base / Height / Flat Diameter	Qty	List
M440-009	1.5" base / 1.00" wall / 3.5" flat	252/pk	\$48.75
M440-010	2.0" base / 1.25" wall / 4.5" flat	256/pk	\$53.48
M440-011	2.0" base / 1.75" wall / 5.5" flat	252/pk	\$60.75

Ultra-Clean™ Premium Aluminum Foil

Pure aluminum foil is manufactured specifically for lab

Premium Ultra-Clean™ pure aluminum foil is manufactured specifically for the lab with added strength and puncture resistance. Highly versatile material can withstand extreme heat and cold. Ultra-Clean™ aluminum foil purity helps maintain the integrity of samples. Premium grade foil eliminates the problems caused by thin, cheap consumer foils which have minute pinholes caused by the production process. The carton has a metal tear-off bar for ease in cutting to size. Unique box flaps prevent the roll from leaving the box. AL-Lab-Pop-Ups™ are individual sheets of foil.

Timesaving one-at-a-time single sheet pop-up requires no cutting or tearing. Sheets are ideal for covering flasks, beakers, petri dishes, weigh boats, disposable crucibles and wrapping samples.

Foil is impermeable to light, oxygen and water

Premium grade foil eliminates problems caused by thinner foils

100% recyclable



Part No.	Range	Qty	List
T501-216	12" x 25'	12/pk	\$604.20
T501-217	12" x 75'	1/ea	\$129.98
T501-218	12" x 200'	1/ea	\$308.88
T501-219	18" x 25'	1/ea	\$97.50
T501-220	18" x 50'	12/pk	\$2169.90
T501-221	18" x 25'	12/pk	\$1715.70
T501-222	9" x 10-3/4"	1/ea	\$263.40

Stock up on flasks and save with Fox Scientific!

See pages 172 to 177



INDICATOR STRIPS

Alkalinity

Insta-Test 5-Way Test Strips

The Insta-TEST® 5 Way strips provide fast results for Nitrate, Nitrite, pH, Alkalinity and Total Hardness.

Factors	# of Tests	Range and Sensitivity
0-200 (Nitrate)	25	0, 20, 40, 80, 160, 200
0-10.0 (Nitrite)	25	0, 0.5, 1.0, 3.0 5.0, 10.0
6.0-9.0 (pH)	25	6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0
0-240 (Alkalinity)	25	0, 40, 80, 120, 180, 240
0-180 (Hardness)	25	0, 30, 60, 120, 180

Part No.	Description	Qty	List
K440-764	5 Way Test Strips	25/pk	\$24.96

Insta-TEST® Alkalinity Test Strips

The Insta-TEST® Alkalinity test strips are a quick and easy way to test for Alkalinity in water. Range and Sensitivity is 0, 40, 80, 120, 180 ppm.

Part No.	Test Factor	Range	Qty	List
K440-734	Alkalinity Test Strips	0, 40, 80, 120, 180 ppm	100/pk	\$14.24

Ammonia

Ammonia Test Strips

The Insta-Test Ammonia test strips provide a fast and easy method for testing ammonia levels in fresh or salt water. Range/sensitivity is 0, 0.5, 1.0, 3.0, 6.0 (ppm) NH₃.

Part No.	Description	Qty	List
K440-758	Ammonia Test Strips	25/pk	\$23.24

Chloride

Insta-Test 6-Way Drinking Water Test Strips

With a single dip, the strip tests Free Chlorine, Total Chlorine, pH, Hardness, Nitrate and Nitrite in less than 45 seconds. The Insta-TEST® 6-Way Test Strips are appropriate for both municipal and well water testing applications. Each bottle contains 25 test strips and is packaged in our exclusive pop-top vial with integrated desiccant liner and water-proof color chart on the label.

Factors	Range (ppm)	Sensitivity (ppm)
Chlorine (Free and Total)	0-10	0, 0.5, 1, 3, 5, 10 25
pH	4-10	4, 5, 6, 7, 8, 9, 10
Hardness	0-400	0, 50, 100, 200, 400
Nitrate	0-50	0, 5, 10, 25, 50 (NO ₃ -N)
Nitrite	0-10	0, 0.5, 1.0, 5.0, 10.0 (NO ₂ -N)

Part No.	Description	Qty	List
K440-700	6 Way Test Strips	25/pk	\$20.50

QUANTOFIX® Chloride

Color reaction: brown → yellow

This test strip is for the rapid and reliable determination of chloride in solutions. The easy dip-and-read-procedure provides a reliable result within 1 minute.

Chloride ions occur in all natural waters. Their concentration depends on the geological and local situation. In waste waters and polluted rivers the chloride concentration can reach high values. In combination with Sodium, Chloride forms NaCl or table salt.

Note: mg/L is equivalent to ppm

Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-149	0 · 500 · 1000 · 1500 · 2000 · ≥2000 mg/L Cl	100/pk	\$54.03

Silver Chromate Paper

This paper tests for chlorides/halides.

Color reaction: beige → white

Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-268	Trace Amount	100/pk	\$105.63



VISOCOLOR® ECO Chloride

(sufficient for 90 tests)

Chloride ions react with mercuric thiocyanate to produce undissociated mercuric chloride and to liberate thiocyanate ions. In the presence of ferric salts these thiocyanate ions produce a characteristic orange colour.

Shelf life: at least 1 year Detectable with PF-12: yes

Sea water suitability: no

Note: mg/L is equivalent to ppm



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-228	1 · 2 · 4 · 7 · 12 · 20 · 40 · 60 mg/L Cl ₂	1/kit	\$82.47

Chlorine

Chlortestmo

This test paper allows the quick and easy detection of free halogens (chlorine, bromine, iodine). Free nitrous acid HNO₂ (not nitrite ions) interferes, but can be destroyed by addition of amidosulphuric acid.

Color reaction: pale yellow → blue



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-057	1 mg/L Cl ₂	200/pk	\$73.94

QUANTOFIX® Chlorine Sensitive

These test strips allow the quick and easy detection of low range total Chlorine (total chloramines). The easy dip-and-read procedure provides reliable results within 20 sec.

QUANTOFIX® Chlorine Sensitive test strips are the perfect choice when it is necessary to determine low range chlorine.

Type: qualitative test paper

Color reaction: yellow → violet



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-166	0 · 0.1 · 0.5 · 1 · 3 · 10 mg/L Cl ₂	100/pk	\$42.52

QUANTOFIX® Chlorine

Box of 100 strips + reagents

This test allows the quick and easy determination of Chlorine in solutions. It comes with all necessary reagents so that the measurement can immediately be started. Within 1 minute one gets a reliable result.

For the sensitive determination of Chlorine in swimming pool we recommend our swimming pool tests

Color reaction: white → red-violet



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-145	0 · 1 · 3 · 10 · 30 · 100 · 400 mg/L Cl ₂	100/pk	CALL

Chlorine Test Paper

The white paper turns blue-violet in the presence of Cl₂. The test is particularly suitable for high range applications in disinfectant solutions which are for example used in food and beverage industry and animal farms.

Color reaction: white → dark blue



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-073	0 · 10 · 50 · 100 · 200 mg/L Cl ₂	5m/Roll	\$15.44

VISOCOLOR® ECO Chlorine 2, free and total

Colorimetric Test Kit (refill pack) (sufficient for 150 tests)

At a pH value of 5 - 6 free chlorine reacts with N,N-diethyl-1,4-phenylene diamine (DPD) to form a red-violet dye.

In the presence of iodide ions the content of total chlorine can be determined, too. (Reaction basis according to DIN EN ISO 7393 G4-2)

Shelf life: at least 1.5 years Detectable with PF-12: yes

Sea water suitability: yes



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-226	<0.1 · 0.1 · 0.2 · 0.3 · 0.4 · 0.6 · 0.9 · 1.2 · 2.0 mg/L Cl ₂	1/kit	\$68.25



Visorcolor® ECO Chlorine 2

Colorimetric Test Kit (refill pack) (sufficient for 150 tests)

At a pH value of 5 - 6 free chlorine reacts with N,N-diethyl-1,4-phenylene diamine (DPD) to form a red-violet dye. In the presence of iodide ions the content of total chlorine can be determined, too. (Reaction basis according to DIN EN ISO 7393 G4-2)

Shelf life: at least 1.5 years Detectible with PF-12: yes

Sea water suitability: yes



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-227	<0.1 · 0.1 · 0.2 · 0.3 · 0.4 · 0.6 · 0.9 · 1.2 · 2.0 mg/L Cl ₂	1/kit	\$73.94

Swimming Pool Tests

This swimming pool test consists of test sticks for the semi-quantitative determination of free chlorine, alkalinity and the pH value of swimming pool water.

Parameter: Ranges: Colour change Free chlorine 0.5 ÷ 10 mg/L Cl₂ yellow « violet Alkalinity 80 ÷ 240 mg/L CaCO₃ light green « dark green pH 6.4 ÷ 8.4 yellow « red

These test sticks are a convenient tool for orienting measurement of three parameters which are very important for swimming pool water. The determination is performed in two steps: The gradation and evaluation of the values for free chlorine, alkalinity and pH on the colour scale follow the rules and limiting values valid for the USA.



Part No.	Description	Qty	List
P950-101	Semi-quantitative Test Strips	50/pk	\$19.91

Swimming Pool Tests

(sufficient for 50 tests)

This test allows the quick and easy determination of the water quality in swimming pools. The test strip is dipped into the pool and moved back and forth 5 times. A reliable result is obtained within 30 seconds.

The test provides valuable results about the water hardness, the total alkalinity, free and total chlorine and pH.

Monitoring of the water quality allows adjusting the dosage of water conditioners in good time. The pool remains nice and clean.

Gradation of Scale

total hardness: 0 · 100 · 250 · 500 · 1000 mg/L CaCO₃

free chlorine: 0 · 0.5 · 1 · 3 · 5 · 10 · mg/L Cl₂

total chlorine: 0 · 1 · 3 · 5 · 10 · mg/L Cl₂

alkalinity: 0 · 80 · 120 · 180 · 240 mg/L CaCO₃ pH: 6.4 · 6.8 · 7.2 · 7.6 · 8.4



Part No.	Description	Qty	List
P950-107	5 in 1 Semi-quantitative test strips	50/pk	\$26.07

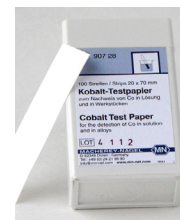
Cobalt

Cobalt Test Paper

This test paper allows the quick and easy detection of Cobalt (Co₂+).

This test paper can also be used for non-destructive testing of materials. Apply a drop of acid solution (50mL hydrogen peroxide 3 % + 7.5mL o-phosphoric acid 85 % + 5mL hydrochloric acid 37 %) to the degreased surface. After 30-60 seconds absorb the liquid with the test paper. In the presence of cobalt a blue color appears. The intensity of the color varies according to the concentration. With this procedure cobalt contents >0.5% are safely detected.

Color reaction: blue → white



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-084	25 mg/L CO ₂ +	100/pk	\$44.08

QUANTOFIX® Cobalt

This test strip is for the rapid and reliable determination of cobalt in solutions. The easy dip-and-read-procedure provides a reliable result within 20 seconds.

Cobalt is also used for metal alloys and can in other compounds be part of catalysts. QUANTOFIX® Cobalt is used to monitor waste water and for non-destructive testing of materials.

Color reaction: white → blue-green



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-131	0 · 10 · 25 · 50 · 100 · 250 · 500 · 1000 mg/L CO ₂ +	100/pk	\$51.18

Cyanide

QUANTOFIX Cyanide

Test sticks and reagents for the semi-quantitative determination of cyanide in solutions.

Gradation of scale: 0-1-3-10-30 mg/l CN - white to red-violet. Only free cyanides or cyanide complexes which can be decomposed with chlorine are detected. Strongly alkaline solutions (pH > 10) must be adjusted to a pH of 6 - 7 using dilute sulphuric acid.

Thiocyanates in excess of 1 mg/L produce a similar coloration. Iodide and bromide above 5 mg/l cause the colour to fade as does sulphide above 20 mg/L.



Part No.	Description	Qty	List
P950-146	Strips & Reagent	100/pk	\$89.58

EDTA

QUANTOFIX EDTA

Hazard Class /UN Number: Not Restricted

Storage Temp: Room Temperature

Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-162	0 - 100 - 200 - 300 - 400 mg/l EDTA Instruction Sheet	100/bx	\$43.54



Free Chlorine

Free Chlorine High Range Test Strips

Applications: Water and wastewater, industrial water boiling and cooling, laundry and sanitation

The Insta-Test High Range Chlorine test strips are a convenient way to test water for high range levels of Free Chlorine.

Range and sensitivity is 0, 50, 100, 250, 500, 800 ppm.



Part No.	Range	Qty	List
K440-761	0, 50, 100, 250, 500, 800ppm	50/bx	\$24.80

Insta-TEST® Drinking Water Test Strip

LaMotte Drinking Water Test Strip tests 5 important water quality parameters for both municipal and well water sources in only seconds! With a 2-second dip, each strip determines Free Chlorine, Total Chlorine, Total Hardness, pH, and Nitrate.

2 strips per pouch.

Test Factor	Range/Sensitivity
Free Chlorine	0-10 ppm (0, 0.5, 1, 3, 5, 10)
Total Chlorine	0-10 ppm (0, 0.5, 1, 3, 5, 10)
Total Hardness	0-400 ppm (0, 50, 100, 200, 400, 0, 3, 5.8, 11.7, 23 gpg)
pH	4-10 (4, 5, 6, 7, 8, 9, 10)
Nitrate	0-50 ppm (0, 5, 10, 25, 50 NO ₃ -N)



Part No.	Description	Qty	List
K441-159	Drinking Water Test Strip	10pouches/pk	CALL

Potassium Iodide Starch Paper MN 816 N Standard Grade

Hazard Class /UN Number: Not Restricted

Storage Temp: Room Temperature

This is a filter paper impregnated with potassium iodide (KI) and starch for the detection of nitrite and free chlorine.

Nitrite or free chlorine oxidize potassium iodide to form elemental iodine which reacts with the starch in known manner.

Colour reaction: white to blue-violet. Potassium iodide starch paper may be used by dipping it into the solution to be tested.

More often, however, it is used in the manner of a spot test by applying drops of the solution to the paper.



Part No.	Description	Qty	List
P950-103	Potassium Iodide Starch Paper	5m/roll	\$14.80



pH

FOXBRAND® Indicator Strips

pH-Fix indicator sticks are for the rapid measurement of the pH of a water sample. Additionally they can be used for monitoring the pH of a sample during analysis to avoid errors due to weakly buffered solutions. For this purpose pH-Fix indicator sticks are clearly superior to other pH papers. In contrast to conventional indicator papers, the indicator dyes of pH-Fix sticks are chemically bonded to the cellulose fibers (DE-PS 24 36 257).



Part No.	Range	Resolution	Qty	List
P945-101	0 - 14	1.0	100/pk	\$28.64

PH-FIX 4.5-10

Hazard Class /UN Number: Not Restricted
Storage Temp: Room Temperature
Non-bleeding indicator strips.



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-184	4.5 - 5.0 - 5.5 - 6.0 - 6.5 - 7.0 - 7.5 - 8.0 - 8.5 - 9.0 - 9.5 - 10.0	100/pk	\$16.12

PH-FIX 0.3-2.3

Hazard Class /UN Number: Not Restricted
Storage Temp: Room Temperature
Non-bleeding indicator strips.



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-196	0.3 - 0.7 - 1.0 - 1.3 - 1.6 - 1.9 - 2.3	100/pk	\$16.12

PH-FIX 7.0-14

Hazard Class /UN Number: Not Restricted
Storage Temp: Room Temperature
Non-bleeding indicator strips.



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-187	7.0 - 7.5 - 8.0 - 8.5 - 9.0 - 9.5 - 10.0 - 10.5 - 11.0 - 11.5 - 12.0 - 12.5 - 13.0 - 13.5 - 14.0	100/pk	\$25.32

PEHANON pH 0.0-1.8

Hazard Class /UN Number: Not Restricted
Storage Temp: Room Temperature
pH indicator papers where the indicator and color scale are combined on a single strip.



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-038	0 - 0.3 - 0.6 - 0.8 - 1.0 - 1.2 - 1.5 - 1.8	200/pk	\$25.32

PEHANON pH 10.5-13.0

Hazard Class /UN Number: Not Restricted
Storage Temp: Room Temperature
pH indicator papers where the indicator and color scale are combined on a single strip.



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-048	10.5 - 11.0 - 11.5 - 12.0 - 12.5 - 13.0	200/pk	\$25.32

PH-FIX 6.0-10.0

Hazard Class /UN Number: Not Restricted
Storage Temp: Room Temperature
Non-bleeding indicator strips.



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-186	6.0 - 6.4 - 6.7 - 7.0 - 7.3 - 7.6 - 7.9 - 8.2 - 8.4 - 8.6 - 8.8 - 9.1 - 9.5 - 10.0	100/pk	\$16.12

PEHANON pH 1.0-2.8

Hazard Class /UN Number: Not Restricted

Storage Temp: Room Temperature

pH indicator papers where the indicator and color scale are combined on a single strip.



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-039	1.0 - 1.3 - 1.6 - 1.8 - 2.0 - 2.2 - 2.5 - 2.8	200/pk	\$25.32

PEHANON pH 4.0-9.0

Hazard Class /UN Number: Not Restricted

Storage Temp: Room Temperature

pH indicator papers where the indicator and color scale are combined on a single strip.



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-050	4.0 - 4.5 - 5.0 - 5.5 - 6.0 - 6.5 - 7.0 - 7.5 - 8.0 - 8.5 - 9.0	200/pk	\$25.32

PEHANON pH 6.0-8.1

Hazard Class /UN Number: Not Restricted

Storage Temp: Room Temperature

pH indicator papers where the indicator and color scale are combined on a single strip.



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-044	6.0 - 6.3 - 6.6 - 6.9 - 7.2 - 7.5 - 7.8 - 8.1	200/pk	\$25.32

pH Strips

Non-bleeding indicator strips.

Range: 0.0 to 6.0



Part No.	Gradation of Scale or Limit of Sensitivity	Qty	List
P950-182	0 - 0.5 - 1.0 - 1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0 - 4.5 - 5.0 - 5.5 - 6.0	100/pk	\$16.12

Potassium Iodide

Potassium Iodide Starch Paper

This is a filter paper impregnated with potassium iodide (KI) and starch for the detection of nitrite and free chlorine.

Nitrite or free chlorine oxidize potassium iodide to form elemental iodine which reacts with the starch in known manner.

Color reaction: white to blue-violet. Potassium iodide starch paper may be used by dipping it into the solution to be tested. More often, however, it is used in the manner of a spot test by applying drops of the solution to the paper.



Part No.	Description	Qty	List
P950-106	Potassium Iodide Starch Paper	200/pk	\$26.54

Sodium Chloride

Saltesmo

Hazard Class /UN Number: Not Restricted

Storage Temp: Room Temperature

Test paper for the quantitative determination of halide ions. This test is based on a reaction between the halide ions

NaCl and a coloured silver salt, which is decolourised by the reaction. Although the paper will react with all of the

above halides, it is most frequently used for the determination of chloride and thus, indirectly, for the detection of NaCl.

It is for this purpose that SALTESMO paper is specially recommended. Cyanide and thiocyanate also bleach the brown color. Fluoride ions do not interfere.

Limit of sensitivity: SALTESMO permits the semi-quantitative determination of NaCl.

Gradations: 0 - 0.25 - 0.5 - 1 - 2 - 3 - 4 - 5 g/l NaCl (each package is supplied with a comparison scale). Instruction sheet



Part No.	Description	Qty	List
P950-062	Saltesmo	30/pk	\$118.08



Total Chlorine

Total Chlorine Low Range Test Strips

Applications: Pool and spa, drinking water, industrial water boiling and cooling, water and wastewater.

The Insta-TEST® Low Range Total Chlorine test strips are a convenient way to test water for low range levels of Total Chlorine. Range and sensitivity is 0, 0.25, 0.5, 1, 3, 10 ppm.

Part No.	Description	Qty	List
K440-717	Total Chlorine Low Range Test Strips	25/pk	\$8.57



Total Chlorine Test Strips

Applications: Drinking water, industrial water boiling and cooling, laundry and sanitation, water and wastewater.

The Insta-TEST® Total Chlorine test strips are a convenient way to test water for Total Chlorine.

Range and sensitivity is 0, 0.5, 1, 3, 5 ppm.

Part No.	Description	Qty	List
K440-723	Total Chlorine Test Strips	50/pk	\$14.19



Insta-TEST Total Chlorine, pH, Total Hardness & Iron Test Kit

Applications: Drinking Water.

The new Insta-Test Total Chlorine/pH/Hardness and Iron test kit combines the best of both worlds. The kit includes 25 quick, easy and accurate tests using a simple dip-and-read formulation. The strips are packaged in a unique hinged, waterproof PopTop bottle with a desiccant liner that protects the test strips from moisture.



Test Factor	Range/Sensitivity	# of Tests
Chlorine, Total	0-10 ppm (0, 0.5, 1, 3, 5, 10)	
pH, Wide Range	4-10 pH units (4, 5, 6, 7, 8, 9, 10)	25
Hardness, Total	0-450 ppm (0, 50, 100, 200, 450) gpg (0, 3, 5.8, 11.7, 26)	
Iron *	0-5 ppm (0, 0.3, 0.5, 1, 3, 5)	25

Part No.	Description	Qty	List
K440-729	Total Test Kit	25/pk	\$29.10

* New Iron test is dip-and-read in 60 seconds.

Did you know Fox offers their own
brand of pH buffers?

Available sizes:

500ml, 1L, 4L, 20L

Color coded red, yellow and blue!

Would you like to try them? We also offer a buffer pack option

Part No. B111-000 that contains 1 each of our

500ml 4.00, 7.00 & 10.00 buffers!



ORGANIZATION

Bins

Kartell Storage and Transport Trays PVC

Plastic Storage Trays are useful for lab and desk items. Plastic organization trays are very sturdy. Use for carrying items such as stir bars, connectors etc. Useful for knick knacks - rulers, erasers, pencils etc., in desk drawers. Central compartment of five cavity tray can be used for pipettes.



Part No.	Cavity	Cavity Dimensions	L x W x H	Qty	List
M461-286	5	100 x 185mm (4) 100 x 385mm (1)	304 x 404 x 64mm	1/ea	\$95.88
M461-287	12	90 x 90mm	303 x 403 x 63mm	1/ea	\$104.85

Section Tray

Both sizes of plastic section trays interlock to help you organize supplies. Use plastic section trays separately or make an endless number of sections or combinations. Can be fitted in drawers, on shelves or benchtops. Each section hooks to the adjoining one so that they are never disarranged. Nestable to stack when not in use. White color.



Part No.	Description	Qty	List
M460-254	9 x 6 x 2"	1/ea	\$140.68
M460-255	12 x 3 x 2"	1/ea	\$113.80

Bel-Art Acrylic Small Storage Bin; 5 x 6 x 7"

Dispenser keeps items such as alcohol pads, finger cots, microcentrifuge tubes and other small lab supplies organized and within easy reach.

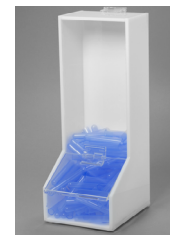
Organized, dust free storage.
White acrylic with clear acrylic front panel for viewing contents.
Top is removable for filling.
Hinged cover allows easy dispensing of items as needed.



Part No.	Dimensions (L x W x H)	Qty	List
M440-420	12.7 x 15.2 x 17.8cm (5 x 6 x 7")	1/ea	\$189.00

Bel-Art Acrylic Large Storage Bin; 5 x 6 x 14"

This large storage bin keeps small items organized and within reach. Ideal for dust-free storage of bulk purchase items such as tubes, tips and cotton balls. White acrylic with clear acrylic front panel that keeps contents in view. Top is removable for filling. Hinged cover allows easy dispensing of items as needed.



Part No.	Dimensions (L x W x H)	Qty	List
M440-419	12.7 x 15.2 x 35.5cm (5 x 6 x 14")	1/ea	\$278.48

Bel-Art Pipettor and Tip Storage Station; 9½ x 16½ x 6½"

Keep pipettors and tips within reach with this handy storage station. Top rack stores up to six pipettors; three bins hold a generous supply of bulk pipette tips. White acrylic plastic base, sides and top afford easy cleaning. Bin front and self-closing lid are made from transparent acrylic for clear view of contents.



Part No.	Dimensions (L x W x H)	Qty	List
R100-295	24 x 42 x 16.5cm (9½ x 16½ x 6½")	1/ea	\$309.15

CLEARLY SAFE® Workstation Storage Bin

The essential combination accessory holder and organizer. Organize your most commonly used laboratory disposables in one central location. Acrylic unit has room to store gloves, Kimwipes® and Parafilm®. Use bins to store tubes, pipettes, etc.



Part No.	Description	Qty	List
M220-343	10.43" x 5.39" x 17.32" (26.5 x 13.7 x 44cm)	1/ea	\$192.63



MagLab Magnetic Lab Storage Set

Create lab storage space—off your bench top

Easily organize common lab products off your bench top with the MagLab storage system.

Each rack is made of robust ABS plastic in a bright translucent color and features four powerful magnets for a secure hold onto most metal surfaces or create your own holding point with the metal plate provided.

MagRack holds four 50mL tubes and nine 15mL tubes.

MagWipe holds a standard (110 x 210mm) Kimwipes® box.

MagPette holds two pipettors (fits most popular styles).

MagBox holds miscellaneous accessories.

Use the MagLab self-adhesive mounting plates for use on non-metallic surfaces.

The MagLab Series is available individually or as a pack of four.



Part No.	Description	L x W x H	Qty	List
M220-365	Assorted (Teal, Green, Purple, Orange)	20.5 x 15.4 x 4"	4/pk	\$82.37
M220-366	MagRack, Teal	5.1 x 4.4 x 2.5"	1/ea	\$23.76
M220-367	MagWipe, Green	5.1 x 3.5 x 3.8"	1/ea	\$23.76
M220-368	MagPette, Purple	5.1 x 4.4 x 2.9"	1/ea	\$23.76
M220-369	MagBox, Orange	5.1 x 3 x 4"	1/ea	\$23.76

Plastic Compartment Boxes

Organize and store 35mm slides, hardware, corks, stoppers and other lab items in these styrene plastic compartment boxes.

Crystal-clear, they afford full visibility of contents.

Tight-fitting, hinged lid keeps objects contained.

Multiple sizes/configurations to choose from.

Not recommended below 0°C.



Part No.	L x W x H	Compartments	Qty/pk	List/pk	Qty/cs	List/cs
M440-233	33.3 x 22.9 x 5.8cm	1	1/pk	\$73.95	5/cs	\$369.75
M440-234	33.3 x 22.9 x 5.8cm	6	1/pk	\$75.60	5/cs	\$378.00
M440-235	33.3 x 22.9 x 5.8cm	24	1/pk	\$83.85	5/cs	\$419.25
M440-236	27.9 x 17.3 x 4.6cm	12	1/pk	\$49.95	10/cs	\$499.50
M440-237	27.9 x 17.3 x 4.6cm	18	1/pk	\$49.95	10/cs	\$499.50
M440-238	21.1 x 11.4 x 3.6cm	6	1/pk	\$26.25	24/cs	\$630.00

Pipette Workstation

Organize your pipette and tips.

Keep pipette and disposable tips together in one convenient stand.

Acrylic rack is opaque on sides but has clear front and bin lids for easy identification of contents.

Acrylic rack holds up to four pipette on top shelf.

Dual bins house two different sizes of tips. Self-closing lids provide dust-free storage.

Oversized lip on lid allows for easy access even when wearing gloves.

Part No.	Description	Qty	List
M220-359	244 x 165 x 246mm	1/ea	\$165.11



TUBBY® Storage Bin

Sturdy storage bin with lid and divider.

Our handy Tubby® stackable storage bin is designed to help organize a laboratory. The removable dividers can create as big or as small a compartment as needed. Perfect for keeping tubes, tips, pipettes, gloves and other small items organized and out of the way.

The lid snaps in place to secure the contents and for safe transport.

Constructed of high-impact polypropylene.



Part No.	Description	Qty	List
M220-344	330 x 200 x 115mm	1/ea	\$48.32

Workstation Dispensing Bins

Crystal-clear bins let you see and organize your small items inventory. See inventory levels of pipette tips, tubes, fittings, finger cots and other bulk small items at a glance. Flip-top covers on generous openings make filling and dispensing easy and keep products dust-free. 4 sizes available to cater to a wide variety of storage needs. Includes non-skid rubber feet.



Part No.	Compartments	L x W x D	Qty	List
M220-332	One	180 x 175 x 235mm	1/ea	\$88.92
M220-333	Two	139 x 160 x 368mm	1/ea	\$103.74
M220-334	Three	210 x 155 x 212mm	1/ea	\$118.55
M220-335	Four	278 x 158 x 217mm	1/ea	\$125.95

Drawer

Lab Drawer Compartment Trays

Fit Standard Lab Bench Drawers
These white polystyrene plastic trays measure 36 x 44.5 x 5.7cmH (14 x 17½ x 2¼") and fit standard lab bench drawers. Practical and functional solution for organizing the "stuff" of daily lab life. Various configurations to accommodate thermometers, medication cups, jars, stir bars, vials and/or pipettes.

1 Compartment Tray

Open tray can hold a variety of larger/odd shaped objects or light, bulk materials.



Part No.	Description	Qty	List
M440-413	1 Compartment	1/ea	\$110.33

3 Compartment Tray

Three 6.4cm (2½") deep compartments run the length of the tray holding items up to 38.1cm (15") in length.



Compartment 1: 11.4cmW (4½")
Compartment 2: 7.6cmW (3")
Compartment 3: 7.0cmW (2¾")

Part No.	Description	Qty	List
M440-408	3 Compartments	1/ea	\$110.33

4 Compartment Tray

Four, equal sized compartments, each 19.7 x 15.2 x 5.7cm deep (7¾ x 6 x 2¼").



Part No.	Description	Qty	List
M440-415	4 Compartments	1/ea	\$110.33

5 Compartment Tray

Long center compartment and four side compartments. Center compartment: 7.6W x 38.7L x 5.7cmD (3 x 15¼ x 2¼")
Side compartments: Two – 11.4W x 19L x 5.7cmD (3 x 7½ x 2¼"), Two – 7.0W x 19L x 5.7cmD (2¾ x 7½ x 2¼")



Part No.	Description	Qty	List
M440-412	5 Compartments	1/ea	\$108.25

20 Well Tray

20 wells of various diameters hold containers up to 9.8cm (3⅞")



Part No.	Description	Qty	List
M440-409	20 Wells	1/ea	\$110.33

63 Well Tray

63 wells: 2.8cm diameter x 1.3cm deep (1⅛ x ½")



Part No.	Description	Qty	List
M440-411	63 Wells	1/ea	\$110.33

12 Compartment Tray

12 compartments: each is 9.8 x 9.8 x 7.3cm deep (3⅞ x 3⅞ x 2⅞")



Part No.	Description	Qty	List
M440-410	12 Compartments	1/ea	\$108.25

14 Rest, 3 Compartment Tray

14 rests keep thermometers and other long, fragile instruments organized and accessible. Rests are interrupted by 3 deeper compartments making removal of thermometers easier and provide additional storage.



Part No.	Description	Qty	List
M440-414	14 Rest, 3 Compartments	1/ea	\$110.33

Fox Warehouse holds over a million dollars worth of stock inventory to serve your laboratory needs.



RACKS

Bottle Carrier

Safety Wire Bottle Carrier

For transport of popular sized bottles.

Will securely transport two 'Merck'/Winchester style bottles up to 135mm tall and 170mm diameter (typically 2.5 L capacity).

Made from 304 grade Stainless Steel, with a wire mesh bottom for increased stability.

Handles fold down for easier storage.

Autoclavable.

Measures 370 x 180 x 380mm with handles extended.



Part No.	Description	Qty	List
M220-081	Safety Wire Bottle Carrier	1/ea	\$72.29

Economy Bottle Carrier, HDPE

Lightweight, sturdy bottle carrier provides economical means to transport up to six 1 Liter bottles (3 1/2" diameter or smaller).

Overall dimensions approximately 13" x 9 3/4" x 4 1/4" deep compartments. Handle is approximately 6" high.



Part No.	Description	Qty	List
M460-257	Economy Bottle Carrier, HDPE	1/ea	\$210.03

Bottle Carrier, HDPE

Bottle carriers are fabricated in the United States of high density polyethylene and supplied with either HDPE Azlon® Laboratory Bottles or Lightweight HDPE Bottles. A safe and easy method of carrying bottles.

External dimensions for all are 14 1/2" x 8" x 6 1/4" deep.

Single, six and eight compartment carriers supplied with 1" diameter carrying handle. Two compartment carrier supplied with center mounted divider handle.



Part No.	Compartments/Bottle Capacity	Dimensions (W x H x D)	Qty	List
C420-008	1 / n/a	14 x 7.5 x 6"	1/ea	\$319.77
C420-010	2 / 1000mL	4.5 x 3.625 x 6"	1/ea	\$417.56
C420-009	6 / 2000mL	6.875 x 7.5 x 6"	1/ea	\$421.41
C420-011	8 / 500mL	3.25 x 3.625 x 6"	1/ea	\$473.00

BOD Bottle Carrier

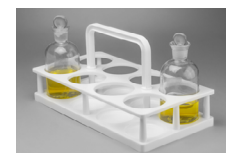
Tall handle for easy carrying.

Polypropylene carrier holds eight standard 300ml Biological Oxygen Demand bottles.

Dimensions: 33 x 17 x 7cmH (13 1/8 x 6 3/4 x 2 5/8"); 9cm (3 5/8") tall handle for easy carrying

Openings are 7.2cm diameter (2.8").

Steam autoclavable at 121°C (250°F).



Part No.	Dimensions (L x W x H)	Qty	List
R100-004	33 x 17 x 7cm (13 1/8 x 6 3/4 x 2 5/8")	2/pk	\$138.08

Wash Bottle Carrier

Easily transport 8 or 16oz. bottles.

Safely and conveniently transport up to 6 wash bottles in this sturdy, lightweight polypropylene carrier.

Secure handle affords both comfort and control.

Chemical resistant.

Autoclavable at 121°C (250°F).

Holds 250ml (8oz) or 500ml (16oz) bottles.



Part No.	Dimensions (L x W x H)	Hole Diameter	Qty	List
B415-149	11 1/4 x 7 3/8 x 8 7/8"	7.4cm (2.91")	1/ea	\$68.10

Centrifuge & Microcentrifuge

ROTA-RACK® Tube Racks

Get organized with this fun, interlocked rack.
 Rotate each of the four modules independently to configure for the tubes that you want to use.
 Made from polypropylene.
 Suitable for a massive variety of culture, centrifuge, micro centrifuge, round, flat or conical bottomed tubes.
 Polypropylene rack maintains its orientation until you twist it again.
 Two versions to cover smaller and larger tube requirements.
 Tubes: 50mL Wells: 2 Well Dia: 29mm
 Tubes: 10-15mL Wells: 8 Well Dia: 20mm
 Tubes: 15-20mL Wells: 6 Well Dia: 16mm
 Tubes: 10-13mL Wells: 10 Well Dia: 13.5mm
 Dimensions: 8.81 x 4.33 x 4.33" (22.4 x 11 x 11cm)
 Color: purple, blue, green, yellow
 Autoclavable



Part No.	Description	Qty	List
M220-516	For Tubes 50, 10-15, 15-20 & 10-13mL	1/pk	\$56.32

ROTA-RACK® Microtube Rack

Get organized with this fun, interlocked rack.
 Rotate each of the four modules independently to configure for the tubes that you want to use.
 Made from polypropylene.
 Suitable for a massive variety of culture, centrifuge, micro centrifuge, round, flat or conical bottomed tubes.
 Polypropylene rack maintains its orientation until you twist it again.
 Two versions to cover smaller and larger tube requirements.
 Tubes: 15mL Wells: 6 Well Dia: 16.4mm
 Tubes: 1.5/2.0mL Wells: 9 Well Dia: 11.2mm
 Tubes: .5mL Wells: 12 Well Dia: 8mm
 Tubes: .2mL Wells: 32 Well Dia: 6.5mm
 Dimensions: 8.81 x 4.33 x 4.33" (21 x 10 x 10cm)
 Color: purple, blue, green, yellow
 Autoclavable



Part No.	Description	Qty	List
M220-517	For Tubes 15, 1.5-2.0, .5, .2mL	1/pk	\$56.32

ROTA-RACK® DUO Tube Rack

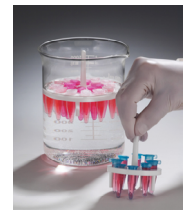
Dilution and concentration studies made easy!
 Transfer solutions between 0.2mL PCR® tubes and 0.5 and 1.5mL micro centrifuge tubes.
 Made from polypropylene.
 Rotate and customize to suit your application needs. 4 combinations possible.
 Blue section holds 48 x 0.5mL and 48 x 1.5mL microfuge tubes on the reverse side.
 Purple section holds 96 x 0.2mL tubes in a standard array pattern one and 48 x 1.5mL tubes on the reverse side.
 Tapered wells securely suspend tubes and makes removal easy.
 Alphanumeric well identification.
 296 x 118 x 34mm
 Autoclavable



Part No.	Description	Qty	List
M220-518	For Tubes 0.5, 1.5, 0.2 & 1.5mL	1/pk	\$45.97

Round Microcentrifuge Floating Racks

Perfectly sized for beakers.
 Molded of steam autoclavable polypropylene, these racks fit 400ml or 1000ml beakers. Choose from 8 or 20 place racks with 10.8mm holes for 1.5ml microtubes.
 Tubes remain completely immersed in a beaker while tops rest above the rack.
 Unload by lightly pressing down against the bench until the legs touch, releasing the tubes.
 Racks are 6.4mm thick with 19mm long legs and a center handle.
 Hole Diameter: 10.8mm



Part No.	For Tubes	Places	O.d.	Fits Beaker	Qty	List
R100-238	1.5ml	8	6.6cm	400ml	4/pk	\$48.83
R100-239	1.5ml	20	9.5cm	1000ml	4/pk	\$55.95



96-Well Microcentrifuge Tube Racks

14 colors for easy organization and quick visual identification.

Double-sided, compact polypropylene rack is perfect for use on the benchtop or in the freezer. One side accommodates 0.5ml microcentrifuge tubes while the opposite side holds 1.5ml to 2.0ml microcentrifuge tubes. 96 wells on each side keep tubes upright in an 8 x 12 array.

Fourteen rack colors assist in sample organization and quick visual identification.

Alphanumeric index permits easy tube identification.

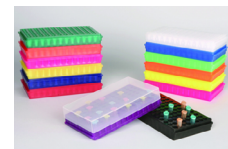
Matte side panel accepts tape or direct labeling.

Molded in handles provide a secure grip for transport.

Can be used for freezer storage down to -80°C (-112°F).

Autoclavable at 121°C (250°F).

Overall dimensions: 21.3 x 11.4 x 2.7cmH (8-3/8 x 4-1/2 x 1-1/16")



Part No.	Description	Qty	List
R100-171	Natural	5/pk	\$110.33
R100-172	Lavender	5/pk	\$110.33
R100-173	Black	5/pk	\$110.33
R100-186	Green	5/pk	\$110.33
R100-187	Orange	5/pk	\$110.33
R100-188	Pink	5/pk	\$110.33
R100-189	Yellow	5/pk	\$110.33
R100-190	Blue	5/pk	\$110.33
R100-191	Red	5/pk	\$110.33
R100-192	1 each, Assorted Colors: Blue, Green, Orange, Yellow, Red	5/pk	\$110.33
R100-181	Fluorescent Blue	5/pk	\$110.33
R100-182	Fluorescent Green	5/pk	\$110.33
R100-183	Fluorescent Orange	5/pk	\$110.33
R100-184	Fluorescent Yellow	5/pk	\$110.33
R100-185	Fluorescent Pink	5/pk	\$110.33
R100-186	1 each, Assorted Fluorescent Colors: Blue, Green, Orange, Pink, Yellow	5/pk	\$110.33
R100-195	Cover - Translucent	5/pk	\$27.30

5ml Centrifuge Tube Rack

Fits Eppendorf® tubes and other brands.

Designed specifically for 5ml centrifuge tubes, including Eppendorf® brand, this rack will also accommodate other tubes with a diameter of 13-16mm.

Made of durable and corrosion resistant white polypropylene plastic.

End plates have handles for easy transport and stacking.

Top shelf height: 3.4cm (1 1/8")

Steam autoclavable at 121°C (250°F).



Part No.	Places / Rows	Dimensions (L x W x H)	Qty	List
R100-012	40 / 4x10	26.0 x 11.3 x 10.5cm (10 1/2 x 4 1/2 x 4 1/8")	1/ea	\$49.28

Poxygrid 50ml Centrifuge Tube Rack

Heavy gauge steel wire.

This black epoxy-coated rack holds 30mm diameter or smaller centrifuge tubes in a 4 x 6 pattern, 24 tubes per rack.

Height: 7.9cm (3.1"); four feet that raise the height an additional 2.1cm (0.81")

Heat-cured epoxy coating is unaffected by organic solvents, salts, weak acids and weak alkalis.

Temperature range -223°C (-369°F) to 121°C (250°F); autoclavable.



Part No.	Places	Dimensions (L x W x H)	Qty	List
R100-341	24	21.3 x 15 x 10cm (8.4 x 5.9 x 3.9")	1/ea	\$97.35

Poxygrid 50ml Centrifuge Tube Racks

50ml multiple tube holders.

Made of epoxy-coated steel wire, these racks hold up to thirty-six 50ml centrifuge tubes in holes 30mm square.

Heat-cured epoxy coating is unaffected by organic solvents, salts, weak acids and weak alkalis.

Temperature range -223°C (-369°F) to 121°C (250°F); autoclavable.



Part No.	Holds Tubes	Places	Dimensions (L x W x H)	Qty	List
R100-134	25-30mm	8	8 x 14.9 x 9.2cm	1/ea	\$64.80
R100-135	25-30mm	16	15.6 x 14.9 x 9.2cm	1/ea	\$67.65
R100-136	25-30mm	36	22.9 x 22.3 x 8.9cm	1/ea	\$98.40

Drying

“MEGA PEG” Drying Boards

36 and 72 place Mega Peg drying boards with custom sizes available upon request.

Perfect for drying larger lab supplies.

Drip tray with drain tube.

Supplied with 5” removable pegs with longer pegs available.

Fabricated of 1/2” polypropylene, these drying racks are perfect for the high volume laboratory. Supplied in two standard sizes but can be fabricated to fit any space requirement.

Each drying board is supplied with the appropriate number of 5” removable pegs with 8” and 12” pegs available as optional accessories.

Shelves, holders and bins available on a custom basis. Mounting holes drilled upon request.

*Depth without pegs



Part No.	Places	Description (L x W x D)	Qty	List
M461-145	72 places	60 x 36 x 3”	1/ea	\$1243.47
M461-146	36 places	30 x 36 x 3”	1/ea	\$906.79

Epoxy Coated Drying Rack

High Quality draining racks suitable for use with plastic and glass labware. Made of chemically resistant epoxy coated steel. Supplied with 8 pegs 110mm long and 24 pegs 80mm in length. A free-standing version of the rack is available for bench top use.



Part No.	Description	Qty	List
M461-016	410 x 300mm	1/ea	\$113.94

Acrylic Drying Rack

This 72 place drying rack is molded of high impact polystyrene. It comes supplied with 72 large pegs, draining tubes, fastening stoppers and expansion hanging hooks which allow coupling with additional racks. The pegs are 4” long and the drip ledge measures 3”.



Part No.	Description	Qty	List
R650-036	17 x 24” (W x H)	1/ea	\$483.15

Drying / Draining Rack

The ABS plastic draining rack provides an excellent option for post-wash draining of tubes and bottles. Rack stands 20” tall x 14” wide. The back plate has 20 holes into which 5” pegs are tightened with the help of screw-nuts. Also includes two holes so the rack can be mounted on a wall. The bottom of the rack features a wastewater tray and drain.



Part No.	Description	Qty	List
B724-852	Drying / Draining Rack, 20 Place	1/ea	\$200.24

Test Tube Drying Racks, PP

These polypropylene racks can conveniently hold inverted tubes for drying and to minimize collection of airborne contaminants. Racks can also be used to hold and dry electrophoresis and chromatography plates. Autoclavable. The 96 place rack features an 8 x 12 array of pegs that hold tubes up to 13mm in diameter. The 50 place rack features a 5 x 10 array of pegs that hold tubes up to 16mm in diameter.



Part No.	Description	Qty	List
B724-801	96 places for up to 13mm tubes	6/pk	\$92.05
B724-802	50 places for up to 16mm tubes	6/pk	\$47.95

Wire Drying Rack

Drain and dry test tubes, beakers, flasks and other labware. Place self-standing rack on a table or near sink or use hooks to hang the rack on the wall.

Holds: 18 x 127mm pins & 72 x 76mm pins



Part No.	Description	Qty	List
M220-322	462 x 182 x 525mm	1/ea	\$153.74



Lab-Aire II Non-Electric Benchtop Dryers

Laboratory space is always in high demand making the small footprint of the Scienceware® Lab-Aire® II Drying Racks a practical solution for drying and storing fragile, frequently used labware. Lab-Aire II Non-Electric Benchtop Dryers lets you place your dryer wherever it will be most convenient. A sturdy base provides excellent balance and support.

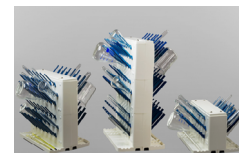
Rugged ABS plastic will never corrode and easily wipes clean.

Drip/storage trays have scalloped wells to hold long thin labware.

Small (3"), medium (4") and large (5") pegs can be moved and repositioned to hold a variety of labware including beakers, flasks, bottles, test tubes and cylinders.

Choose a single sided model to fit nicely against a wall for economy of space.

Double your capacity with a minimal increase in footprint with a double-sided model.



Part No.	Description	Footprint L x W x H	Pegs	Qty	List
R100-275	Single-sided, 1 Tier	14.75 x 5 X 9.4"	19	1/ea	\$140.18
R100-276	Single-sided, 2 Tier	14.75 x 7 X 15.4"	38	1/ea	\$302.03
R100-279	Single-sided, 3 Tier	14.75 x 7 X 22.4"	57	1/ea	\$383.10
R100-280	Double-sided, 1 Tier	14.75 x 10 X 8.4"	38	1/ea	\$273.45
R100-281	Double-sided, 2 Tier	14.75 x 10 X 15.4"	76	1/ea	\$423.48
R100-282	Double-sided, 3 Tier	14.75 x 10 X 22.4"	114	1/ea	\$606.00

Poxygrid Labware Drain Stand

For drying test tubes, beakers, flasks and other labware, this stand has rubber tipped feet for non-skid use on a tabletop or wire loops on the back for wall mounting.

Three rows of epoxy-coated hairpin-loop supports (14 in all) hold labware with 18mm I.D. necks or larger.

Top row has 12 straight pins 10.2cm (4") long to accommodate smaller items.

Polystyrene tray catches water as the labware drains.



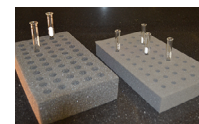
Part No.	Dimensions (L x W x H)	Qty	List
R100-144	43 x 17 x 48cm (16¾ x 6½ x 19")	1/ea	\$172.50

Culture / Test Tube

Foam Test Tube Rack

Foam racks for test tube storage and protection during shipping.

These economical, charcoal gray, open-cell foam racks have a capacity for 50 tubes in a wide range of sizes. Ideal for storage on benchtops, in incubators and refrigerators/freezers. Racks will float for use in waterbaths. Can be used to protect valuable, fragile tubes during mailing/shipping. Ideal alternative to expensive plastic racks.



Ideal for 1.5 - 2.0mL microtubes, 10-13mm culture tubes, standard cryovials and 3-7mL blood-draw collection tubes.

Part No.	Description	Qty	List
F820-026	Small - 9 x 5.25 x 1.25" - 9mm holes	6/pk	\$60.57

Ideal for 16mm culture tubes, 15mL conical tubes and 10 - 13mL blood-draw collection tubes.

Part No.	Description	Qty	List
F820-027	Large - 9 x 5.25 x 1.75" - 13mm holes	6/pk	\$86.58

Round Racks - No-Wire

Fit neatly into round containers such as ice buckets and beakers, as well as desiccators. Choose from two sizes; the large rack is ideal for use in round ice buckets such as Magic Touch™ and the small rack fits perfectly in a 1000ml beaker. Special blend of autoclavable polypropylene is heavier than water so rack remains stable at the bottom of water baths or ice baths.

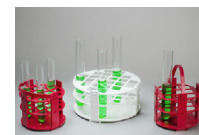
All racks have a base and two tiers of grids with numbered and lettered rows for identification.

Base has four feet which fit into the top of identical racks for easy stacking.

Small rack features a removable, snap-on loop handle for easy retrieval.

Steam autoclavable at 121°C (250°F).

Racks are shipped flat and can be easily assembled.



Large Diameter Rack (14.9cm)

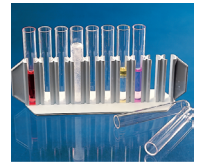
Part No.	Tube Size	Places	Color	Dimensions (Diam. x H)	Qty	List
R100-028	16-20mm	24	White	14.9 x 7.2cm (5.75 x 2.75")	1/ea	\$33.75

Small Diameter Rack w/Handle (9.5cm)

Part No.	Tube Size	Places	Color	Dimensions (Diam. x H)	Qty	List
R100-039	13-16mm	14	Red	9.5 x 8.2cm (3.75 x 3.25")	1/ea	\$32.10
R100-040	16-20mm	9	Red	9.5 x 8.2cm (3.75 x 3.25")	1/ea	\$33.60

Kartell Test Tube Rack, PP

Lightweight, compact Polypropylene test tube rack allows contents of tube to be seen from top to bottom. Specifically designed test tube rack for titration work and extremely useful for viewing colors and precipitates. May be immersed in water bath and can withstand temperatures up to 120C.



Part No.	Places	For Tube Diam.	L x W x H	Qty	List
M462-153	8 Tube	20mm	8.66 x 2.12 x 2.58"	8/cs	\$127.29
M462-154	9 Tube	18mm	8.66 x 2.17 x 2.56"	8/cs	\$126.00
M462-155	10 Tube	16mm	8.66 x 2.17 x 2.46"	1/ea	\$66.77

No-Wire Test Tube Rack

A great alternative to wire racks. Made of special blend of autoclavable polypropylene; will sink in a water bath and maintain their stability even in agitated water. Perfect for use outside the water bath; meets the demands of daily usage in the lab. End plates for labeling; numbered and lettered rows for tube identification. Interlocking feet allow stacking of racks for storage.

Blue



Part No.	Description	Qty	List
R100-067	60 Places; holds 13-16mm tubes 24.6 x 10.4 x 6.4cm (9.7 x 4.1 x 2.5")	1/ea	\$31.13
R100-070	21 Places; holds 25-30mm Tubes 24.6 x 10.4 x 6.4cm (9.7 x 4.1 x 2.5")	1/ea	\$31.43

Chain Tube Rack

The Chain Tube Rack has a unique linkable design that enables the possibility of multiple configurations to form different shaped tube racks. Each well has the flexibility to hold 5mL tubes on one side or rotate it 180° to hold 15mL or 15-17mm tubes (round and conical bottom). Mix and match the well sizes to create one rack that holds multiple sized tubes in a variety of fun and functional configurations.

Chain Tube Rack can be modified to be used in multiple applications including: in water or ice baths, in phlebotomy trays, in a Duraport® specimen transport case or anywhere a tube rack is needed.

Maximize your valuable bench space with the flexibility to hold multiple size tubes (5/15mL and 15-17mm tubes) in one configurable rack.

Open design allows exposure to water and ice baths and helps reduce identification errors.

Create different shapes and rack sizes with up to 16 wells depending on the need: straight line, a circle, 2 x 8, 4 x 4, etc.

Link together multiple Chain Rack packs to accommodate larger tube rack configuration requirements.

Assorted colors for easy identification of tubes or testing (blue, green, yellow and natural).

Not autoclavable.

U.S.A. Patent Pending, Euro. Pat. App. 3 248 684.



Part No.	Description	Qty	List
M220-698	Chain Tube Rack	16/pk	32.53

Wire Rack 13 & 16mm Tubes

Holds 13 & 16mm blood collection tubes. Support capped tubes up to 18mm diameter 3 x 5 format. Supports capped tubes up to 30mm diameter 2 x 4 format. Slotted bottom with chemically-resistant epoxy coated steel wires.

Autoclavable.

Red, 9 x 12 array with 108 wells.



Part No.	Description	Qty	List
M220-079	8.07 x 4.13 x 2.55" (20.5 x 10.5 x 6.5cm)	1/ea	\$36.32

Wet/Dry PP Test Tube Rack

Economical yet very durable racks that are submersible, autoclavable and easily stack when empty. Made from a special blend of polypropylene (PP) that makes them sink in a water bath and maintain their stability, even in agitated water. The top tier features an alphanumeric grid reference. Available in white, but can be special ordered in various colors.



Part No.	Description	Qty	List
B724-804	60 places, 16mm Tube Size	1/ea	\$58.80



SCOOPS

Disposable Polystyrene Sterile Scoops - White

Designed to save time in quality assurance and microbiology labs that require repetitive contamination-free samples: cosmetic, food, pharmaceutical and environmental are just a few applications. Each high impact scoop is individually sealed inside its own plastic bag and Gamma sterilized. Flat base and unique handle design keeps the scoop upright on the bench.



Part No.	Approx. Capacity	Length	Qty	List
S152-004	59.15mL (2 oz)	19.05cm (7.25")	100/cs	\$75.98
S152-006	118.29mL (4 oz)	19.05cm (7.5")	100/cs	\$100.00
S152-007	236.59mL (8 oz)	20.32cm (8.0")	100/cs	\$132.84

Laboratory Scoops with Handles, Stainless Steel

These laboratory scoops are made from high quality stainless steel and are available in two sizes: 5 oz. and 52 oz.



Part No.	Description	Qty	List
S465-214	5 oz	1/ea	\$12.40
S465-213	52 oz	1/ea	\$83.90

Laboratory Scoops, PP

These sturdy polypropylene scoops are available in a variety of sizes and as a complete set of seven scoops. Capacities are molded into the top of each scoop for easy reference. The PP material is autoclavable and will not rust or corrode.



Part No.	Capacity	Qty	List
S465-205	10mL	12/pk	\$25.15
S465-206	25mL	12/pk	\$33.65
S465-207	50mL	12/pk	\$42.00
S465-208	100mL	12/pk	\$58.80
S465-209	250mL	12/pk	\$100.85
S465-210	500mL	6/pk	\$67.25
S465-211	1000mL	6/pk	\$84.00
S465-212	Set of 7 Scoops (one of each above size)	7/pk	\$54.10

Scoop / Ladle, HDPE

Fabricated in the USA of high density polyethylene, these plastic ladle dippers feature a high-temperature extra heavy duty bowl with securely welded solid handle. Handy for sampling and dispensing corrosive liquids.

Note: 600ml size is graduated and supplied with 2 pour spouts.



Part No.	Capacity	Handle Length	Qty	List
M461-102	50mL	9"	12/cs	\$225.29
M461-099	100mL	9"	12/cs	\$243.29
M461-101	250mL	9"	12/cs	\$265.97
M461-103	600mL	10"	12/cs	\$292.44
M461-100	1000mL	12"	12/cs	\$339.65

Sterileware® Sampling Scoop

Sterileware® scoops are the perfect shape and size for taking samples, especially from wide-mouth containers. Bright red color reduces the chance of the scoop being accidentally left behind in a sample and can serve as a code to avoid cross contamination.

FDA grade polystyrene.

Sterile.



Part No.	Nominal Cap.	Bowl (L x W x H)	Handle Length	Qty	List
M440-833	60ml (2oz)	7.8 x 4.1 x 2.9cm	12.7cm	100/pk	\$245.75
M440-835	60ml (2oz)	7.8 x 4.1 x 2.9cm	12.7cm	10/pk	\$51.00
M440-840	125ml (4oz)	9.4 x 5.1 x 3.3cm	12.7cm	100/pk	\$270.08
M440-842	125ml (4oz)	9.4 x 5.1 x 3.3cm	12.7cm	10/pk	\$54.83
M440-847	250ml (8oz)	13.5 x 5.4 x 4.9cm	5.6cm	10/pk	\$365.00
M440-848	250ml (8oz)	13.5 x 5.4 x 4.9cm	5.6cm	10/pk	\$76.17

Sterileware Sterile Scoop Sampling System

Snap-on lid contains contents in scoop.

Eliminates the cost of separate sterile bags or containers, saving you time and money in your sample collection process. To use, simply remove the scoop from the bag and detach the lid using the convenient tab. After taking the sample, replace the snap-on lid and use the scoop as a container for transport.

Long handle increases the distance between the hand and sample to reduce contamination potential.

Scoops remain upright when placed on a flat surface; can be used as weighing boats.

Lock-tab on the lid can be bent under for a tighter seal.

Sampling data can be marked on the lid with wax pencil, pre-marked label or labeling tape to facilitate tracking.

Made from FDA grade materials; high-impact polystyrene plastic scoops.

Individually sealed and sterilized in a polyethylene bag ready for one time use and disposal.

Lot stamped for accurate lot tracing; shipped with a Certificate of Processing for Sterilization.

These sampling scoops are designed for retrieving samples from a larger source. Capacity/volumes are estimated and are not meant for taking exact sample weights/volumes. Stated volumes represent typical heaping samples.

Note: Sterilized products are not returnable.



Part No.	Nominal Cap.	Dimen. (L x W x H)	Bowl	Handle Length	Qty	List
M440-852	60ml (2oz)	20.5 x 4.1 x 2.9cm	7.8 x 4.1 x 2.9cm	12.7cm (5")	100/pk	\$358.92
M440-853	60ml (2oz)	20.5 x 4.1 x 2.9cm	7.8 x 4.1 x 2.9cm	12.7cm (5")	10/pk	\$75.33
M440-854	125ml (4oz)	22.1 x 5.1 x 3.3cm	9.4 x 5.1 x 3.3cm	12.7cm (5")	100/pk	\$414.50
M440-855	125ml (4oz)	22.1 x 5.1 x 3.3cm	9.4 x 5.1 x 3.3cm	12.7cm (5")	10/pk	\$88.67

Sterileware Sterile Sampling Scoops - White

Sterileware® scoops are the perfect shape and size for taking samples, especially from wide-mouth containers.

Designed to hold various capacities, these one-piece sterile scoops are molded of high-impact polystyrene plastic. 2oz and 4oz sampling scoops have a long handle that increases the distance between the hand and sample.

When placed on a flat surface they remain upright; can be used as weighing boats.

Made from FDA grade materials.

Individually sealed and sterilized in a polyethylene bag ready for one time use and disposal.

Lot stamped for accurate lot tracing; shipped with a Certificate of Processing for Sterilization.

These sampling scoops are designed for retrieving samples from a larger source. Capacity/volumes are estimated and are not meant for taking exact sample weights/volumes. Stated volumes represent typical heaping samples.

Note: Sterilized products are not returnable.



Part No.	Nominal Cap.	Dimen. (L x W x H)	Bowl	Handle Length	Qty	List
M440-829	60ml (2oz)	20.5 x 4.1 x 2.9cm	7.8 x 4.1 x 2.9cm	12.7cm (5")	100/pk	\$193.58
M440-832	60ml (2oz)	20.5 x 4.1 x 2.9cm	7.8 x 4.1 x 2.9cm	12.7cm (5")	10/pk	\$40.42
M440-836	125ml (4oz)	22.1 x 5.1 x 3.3cm	9.4 x 5.1 x 3.3cm	12.7cm (5")	100/pk	\$248.75
M440-839	125ml (4oz)	22.1 x 5.1 x 3.3cm	9.4 x 5.1 x 3.3cm	12.7cm (5")	10/pk	\$51.00
M440-843	250ml (8oz)	19.1 x 5.4 x 4.9cm	13.5 x 5.4 x 4.9cm	5.6cm	100/pk	\$337.50
M440-846	250ml (8oz)	19.1 x 5.4 x 4.9cm	13.5 x 5.4 x 4.9cm	5.6cm	10/pk	\$67.58

Bel-Art Large Sampling Scoop; 2L (1/2 gal), Plastic

Large flat edge for easy scooping of large volumes.

Excellent for scooping anything from bulk powder to ice, this rectangular shaped plastic scoop has rounded corners for easy cleaning.

Rigid polypropylene.

Looped handle for hanging.

Holds approximately 2 liters (1/2 gallon)

Autoclavable.

These sampling scoops are designed for retrieving samples from a larger source. Capacity/volumes are estimated and are not meant for taking exact sample weights/volumes. Stated volumes represent typical heaping samples.



Part No.	Nominal Cap.	Bowl (L x W x H)	Handle Length	Qty	List
M440-793	2L (1/2 gal.)	22.7 x 14.8 x 8.9cm	12.2cm	6/pk	\$145.58

Laboratory Scoop, Stainless Steel

Stainless steel scoop with one pointed end for handling small amounts of chemicals. Length 6-1/2" (16.5cm).

Also available with 5" long hardwood handle.

Part No.	Description	Qty	List
S465-022	Laboratory Scoop, Stainless Steel	6/pk	\$4.02
S465-028	Hardwood Handle for Laboratory Scoop	1/ea	\$4.70
S465-021	Laboratory Scoop and Hardwood Handle Set	1/ea	\$8.55



Sterileware Economy Sampling Scoops

Durable, high-impact polystyrene.

An inexpensive and accurate measure for dry or liquid sample collection. Available 50 sterile scoops per pack or 12 non-sterile scoops per pack.

Capacity is listed on each white scoop.

Leveling the sample to the flat top edge ensures a repeatable and consistent volume measure.

Flat bottom shape and light weight allows for use as a weighing boat.

One-piece scoops are made from durable, FDA grade, high-impact polystyrene plastic.

Sterile are individually sealed and sterilized in a polyethylene bag ready for one time use and disposal, lot stamped for accurate lot tracing and shipped with a Certificate of Processing for Sterilization.

Note: Sterilized products are not returnable.



Sterile

Part No.	Nominal Cap.	Dimensions (L x W x H)	Bowl (L x W x H)	Handle Length	Qty	List
M440-860	63ml	12.9 x 4.4 x 2.7cm	9.4 x 4.4 x 2.7cm	3.5cm	50/cs	\$79.88
M440-861	83ml	14.1 x 4.9 x 2.9cm	10.3 x 4.9 x 2.9cm	3.8cm	50/cs	\$92.48
M440-862	125ml	15.9 x 5.6 x 3.2cm	12.2 x 5.6 x 3.2cm	4.1cm	50/cs	\$103.13
M440-863	250ml	18.9 x 6.8 x 4.1cm	14 x 6.8 x 4.1cm	4.9cm	50/cs	\$133.20

Non-sterile

Part No.	Nominal Cap.	Dimensions (L x W x H)	Bowl (L x W x H)	Handle Length	Qty	List
M440-864	63ml	12.9 x 4.4 x 2.7cm	9.4 x 4.4 x 2.7cm	3.5cm	12/cs	\$20.03
M440-865	83ml	14.1 x 4.9 x 2.9cm	10.3 x 4.9 x 2.9cm	3.8cm	12/cs	\$22.13
M440-866	125ml	15.9 x 5.6 x 3.2cm	12.2 x 5.6 x 3.2cm	4.1cm	12/cs	\$24.90
M440-867	250ml	18.9 x 6.8 x 4.1cm	14 x 6.8 x 4.1cm	4.9cm	12/cs	\$33.23

Large Scoop, HDPE

Fabricated, heavy duty polyethylene scoops with many industrial applications.

Large scoops are available in 1/2 gallon and 1 gallon capacities.

Large, approximately 1 gallon capacity. Bowl size is 8" diameter x 9 1/2" with long 7" handle.

Half-gallon scoop has bowl size 5 3/4" x 8" with 5 1/2" handle.



Part No.	Description	Qty	List
D300-007	Large, 1 Gallon	1/ea	\$103.03
M461-098	Small, 1/2 Gallon	1/ea	\$74.85

Scoop, PTFE

Can be used with powders, granular solids and liquids.

Totally inert and non-contaminating.

Scoop diameter: 20mm

Part No.	Description (W x L)	Qty	List
M461-761	1.18 x 3.15"	1/ea	\$66.32



Scoops, Flat Bottom, HDPE

Heavy duty scoops with many industrial and laboratory applications.

Suitable for liquids and powders.

Part No.	Bowl Length	Bowl Width	Liquid Capacity	Handle Length	Qty	List
M460-338	2 1/2"	1 1/4"	15mL	1 3/4"	12/cs	\$29.00
M460-341	3"	1 3/4"	25mL	2"	6/cs	\$18.15
M460-339	4 1/4"	2 3/4"	65mL	2 3/4"	6/cs	\$23.09
M460-340	5 1/4"	3"	110mL	3"	6/cs	\$30.00
M460-342	5 3/4"	3 1/4"	150mL	3 3/4"	6/cs	\$49.03
M460-343	7 1/2"	4 3/4"	350mL	4 1/4"	6/cs	\$100.88
M460-345	9 1/2"	6 1/4"	750mL	4 1/2"	6/cs	\$190.06
M460-344	10 3/4"	6 3/4"	1250mL	5"	6/cs	\$363.41

Check out Lamotte Biopaddles on page 323.



SPATULAS



Stainless Steel Micro Spatula

Curved, square-cut, sharpened tip (3mm wide) at one end, with small knob at the other end. Overall length: 5 1/2" (140mm)

Part No.	Description	Qty	List
M900-326	5 1/2" (140mm)	1/ea	\$16.33



Stainless Steel Micro Spatula

Curved, square-cut, sharpened tip (3mm wide) at one end, with rounded spoon at the other end. Overall length: 6 1/2" (165mm)

Part No.	Description	Qty	List
M900-327	6 1/2" (165mm)	1/ea	\$17.00



Nickel Stainless Micro Spatula

Spatula with both ends rounded, each end approximately 5/16" (8mm) wide x 2" (51mm) long.

Part No.	Description	Qty	List
M900-330	12" (305mm)	1/ea	\$15.00



Nickel Stainless Micro Spatula

Spatula with one rounded and one tapered end. Rounded end approximately 5/16" (8mm) wide x 2" (51mm) long. Tapered end approximately 1/4" (6mm) wide x 1 3/4" (44mm) long.

Part No.	Description	Qty	List
M900-332	12" (305mm)	1/ea	\$14.00



Nickel Stainless Semi-Micro Spatula

Spatula one end rounded, one end tapered. Rounded end approximately 5/16" (8mm) wide x 2" (51mm) long. Tapered end approximately 1/4" (6mm) wide x 2" (51mm) long.

Part No.	Description	Qty	List
M900-334	7" (178mm)	1/ea	\$12.33



Nickel Stainless Micro Spoon

Spoon-type spatula with cushion grip plastic handle. Oval spoon end is 3/4" (19mm) long x 1/4" (6mm) wide.

Part No.	Description	Qty	List
M900-333	6 1/2" (165mm)	1/ea	\$9.33



Stainless Steel Micro Spatula

Bent sharpened tip (3 1/2mm wide) at one end. With V-Shaped sharpened spoon at the other end. Overall length: 6 5/8" (170mm)

Part No.	Description	Qty	List
M900-328	6 5/8" (170mm)	1/ea	\$17.33



Stainless Steel Micro Spatula

Micro spatula, 8" (20cm) long, one end flat and one end pointed.

Part No.	Description	Qty	List
S465-186	8" (203mm)	1/ea	\$6.32



Nickel Stainless Micro Spatula

Spatula with one rounded and one tapered end. Rounded end approximately 5/16" (8mm) wide x 2" (51mm) long. Tapered end approximately 1/4" (6mm) wide x 1 3/4" (44mm) long.

Part No.	Description	Qty	List
M900-331	8" (203mm)	1/ea	\$12.00



Nickel Stainless Micro Spatula

Spatula with both ends rounded, each end approximately 5/16" (8mm) wide x 2" (51mm) long.

Part No.	Description	Qty	List
M900-329	8" (203mm)	1/ea	\$11.33



Nickel Stainless Teflon-Coated Micro Spatula

Teflon coated spatula with one rounded end and one tapered end. Rounded end approximately 5/16" (8mm) wide x 2" (51mm) long. Tapered end approximately 1/4" (6mm) wide x 1 7/8" (48mm) long.

Part No.	Description	Qty	List
M900-335	7 5/8" (190mm)	1/ea	\$13.67



Stainless Steel Spatula/Spoon

Spatula with one spoon end and one flat squared end.

Part No.	Description	Qty	List
M900-336	7 1/2"	1/ea	\$11.00





Stainless Steel Spatula/Spoon

Spatula with one spoon end and one flat squared end.

Part No.	Description	Qty	List
M900-337	9"	1/ea	\$11.33



Stainless Steel Spatula/Scraper

Heavy duty stainless steel spatula with two flat ends - one with a squared edge - one with a rounded edge.

Part No.	Description	Qty	List
M900-339	12"	1/ea	\$49.67
M900-340	28"	1/ea	\$98.67

Smooth, chemical-resistant plastic scrapers are useful for removing residues from filters, cleaning containers, mixing and distributing solids in fluids, spreading pastes over large areas and many other scraping, spreading, stirring or residue removing tasks.



Blade dimensions: 12.7cmW (5") x 15.2cmL (6")
 Tapers from 9.5mm (3/8") down to a chisel edge
 Upper end extends into a hexagonal shank
 35mm (1 3/8") wide
 Available in white, FDA grade LDPE
 (or red HDPE)

Spatulas, Set of 6

Set of six of our most popular spoons and spatulas for the laboratory.

Includes one each:

S465-201 (4" blade stainless steel spatula mounted on a hardwood handle), B724-838 (6" polypropylene spatula, one end flat, one end spoon), S465-181 (6" stainless steel spatula, one end bent, one end flat), S465-195 (6" stainless steel spatula, one end flat, one end spoon), S465-198 (6" stainless steel spatula, both ends flat) and S465-185 (6" stainless steel spatula, one end flat, one end tapered).

Part No.	Description	Qty	List
S465-143	Spatulas, Set of 6	1/pk	\$40.00



Stainless Steel Spatula/Spoon

Spatula with one spoon end and one flat squared end.

Part No.	Description	Qty	List
M900-338	18"	1/ea	\$58.33



Stainless Steel with Wooden Handles

Flexible stainless steel blade with rounded end, mounted in a polished wood handle.

Part No.	Description	Qty	List
S465-200	3" Blade	1/ea	\$15.85
S465-201	4" Blade	1/ea	\$8.34
S465-202	5" Blade	1/ea	\$9.99
S465-203	6" Blade	1/ea	\$12.66
S465-204	8" Blade	1/ea	\$17.98



Stainless Steel Spatulas, Both Ends Flat

Stainless steel spatulas with both ends flat.

Part No.	Description	Qty	List
S465-197	4" (10cm) Long	10/pk	\$20.90
S465-198	6" (15cm) Long	10/pk	\$35.85
S465-199	8" (20cm) Long	10/pk	\$39.41



Spatulas, Stainless Steel, Flat and Spoon

Stainless steel spatulas with one flat end and one spoon end.

Part No.	Description	Qty	List
S465-194	4" (10cm) Long	10/pk	\$21.24
S465-195	6" (15cm) Long	10/pk	\$18.46
S465-196	8" (20cm) Long	10/pk	\$29.45



Stainless Steel Lab Spoon / Spatula

Extra length for sampling from larger bottles.

This large stainless steel lab spoon is 30.5cm (12") long for reaching into larger bottles.

Flat spatula end measures 3.1cm (1¼") wide.

Spoon end is 3.7cm (1½") wide and holds 5ml.

Connecting bar is 14mm (½") wide.



Part No.	Description	Qty	List
M440-739	X-Long SS Lab Spoon	1/ea	\$83.40

Spatulas, Stainless Steel

Stainless steel spatulas, available in various styles and sizes.



Part No.	Description	Qty	List
S465-180	4" (10cm) Long, One End Flat, One End Bent	10/pk	\$37.35
S465-181	6" (15cm) Long, One End Flat, One End Bent	10/pk	\$30.73
S465-182	8" (20cm) Long, One End Flat, One End Bent	10/pk	\$30.73
S465-183	5" (12.5cm) Long, Both Ends Flat	10/pk	\$41.15
S465-219	8" (20cm) Long, Both Ends Flat	10/pk	\$32.13
S465-185	6" (15cm) Long, One End Flat, One End Tapered	10/pk	\$30.73

Sterileware Sampling Spatulas

V-shaped spatula ideal for caked granules or powder.

These V-shaped spatulas are ideal for every type of powdered or granulated material. Sterileware Spatulas (9" and 14") are made of high-impact polystyrene, individually packaged, sterilized by gamma irradiation, lot stamped and shipped with a Certificate of Processing. Non-sterile 9" spatulas are made of polypropylene.

Sturdy point for taking sterile samples during process quality inspections and for piercing plastic-lined paper bags or similar packages.

Long 14" spatula is perfect for dislodging caked or crystallized reagents from deep within tall bottles or vessels having a neck diameter as small as 18mm (¾").

Molded from FDA-grade materials; safe for food, drug and cosmetic contact.

Note: Sterilized products are not returnable.

Capacity is approximate.



Part No.	Description	V-Channel Length	Capacity	Qty	List
M440-856	Sterileware 9" Spatula	15.3cm (6")	15cc	100/pk	\$205.17
M440-857	Sterileware 14" Spatula	25.4cm (10")	23cc	50/pk	\$121.17
M441-218	Non-sterile 9" Spatula	15.3cm (6")	15cc	12/pk	\$37.05

SMART SPATULAS™

Ideal for dispensing or sample collection of powders or soft solids.

Shatter resistant in liquid nitrogen and resistant to dilute acids and bases and can be used with hot liquids.

Anti-static, sterile and eco-friendly versions available.

Autoclavable and complies with FDA standards for food contact.

Disposable.



Use with Tubes: 15 & 1.5mL

Part No.	Description	L x W	Spoon (Flare)	Scoop or Pick (L x W)	Qty	List
M220-025	Standard Blue	210 x 7mm	25 x 14mm	30 x 3mm	300/pk	\$54.68
M220-026	Standard Opaque	210 x 7mm	25 x 14mm	30 x 3mm	300/pk	\$54.68
M220-029	Standard Opaque Sterile	210 x 7mm	25 x 14mm	30 x 3mm	100/pk	\$221.24
M220-030	Eco	140 x 7mm	25 x 14mm	30 x 3mm	300/pk	\$58.05

Use with Tubes: 0.2 & 0.5mL

Part No.	Description	L x W	Spoon (Flare)	Scoop or Pick (L x W)	Qty	List
M220-027	Micro Antistatic	140 x 3.5mm	n/a	11mm L tapered @ 15° (V-Tip)	300/pk	\$38.74

Use with Tubes: 50mL

Part No.	Description	L x W	Spoon (Flare)	Scoop or Pick (L x W)	Qty	List
M220-028	Macro Green	310 x 10mm	42 x 23.5mm	30mm L tapered @ 35°	150/pk	\$60.63



SPOONS

Spatulas with Spoons, Porcelain

Glazed porcelain spatula with one flat end and one spoon end.



Part No.	Length / Capacity	Qty	List
S465-019	100mm / 0.1mL	1/pk	\$23.95
S465-018	125mm / 0.3mL	1/pk	\$27.15
S465-017	165mm / 0.5mL	1/pk	\$30.15
S465-016	198mm / 1.2mL	1/pk	\$36.40
S465-015	260mm / 5.5mL	1/pk	\$36.40

Nasco Sterilized Spoons

Where sterile techniques are required for collection of samples, these gas sterilized spoons are ideal for use with Whirl-Pak® bags. These easy-to-use spoons are made of sturdy, durable polystyrene. The procedure for contamination-free use is to open the bag, push one spoon up, pull it out and reclose the bag. Spoons are packed 20 per bag.



Part No.	Description	Qty	List
B120-019	Sterilized Spoon	100/pk	\$33.75

Disposable Sterile Spoons- White

Extra long handles for easy sample collection and reduced chance of contamination. Use for small amounts of dry or slurry samples. Each high impact polystyrene spoon is individually sealed inside its own plastic bag and Gamma sterilized. Flat base and unique handle design keeps the spoon upright on the bench.



Part No.	Approx Cap.	Length	Qty	List
S402-049	0.25 Tsp (1.23mL)	17.78cm (5.93")	200/cs	\$132.84
S402-050	0.50 Tsp (2.46mL)	17.78cm (6.45")	200/cs	\$135.36
S402-051	1.0 Tsp (4.93mL)	17.78cm (7.71")	200/cs	\$123.12
S402-052	1.0 Tbsp (14.79mL)	17.78cm (6.5")	200/cs	\$125.26

Sterileware Long Handle Sampling Spoons

Sterile, small sample collection.

Designed to gather small amounts of sample material, especially in hard to reach containers.

Long handle reaches into jars, bottles and other confined areas.

Minimizes the potential of personal contact with sampled material.

Sterile, FDA grade polystyrene safe for food, drug and cosmetic use.

Individually packaged, sterilized by gamma irradiation, lot stamped for accurate lot tracing and shipped with a Certificate of Processing for Sterilization.

Note: Sterilized products are not returnable.



Part No.	Nominal Cap.	W x L	Qty	List
M440-868	1.25mL (1/4 tsp)	2cm (13/16") x 17.8cm (7")	200/pk	\$335.75
M440-869	1.25mL (1/4 tsp)	2cm (13/16") x 17.8cm (7")	10/pk	\$70.17
M440-871	2.46mL (1/2 tsp)	2.5cm (1") x 17.8cm (7")	200/pk	\$348.17
M440-872	2.46mL (1/2 tsp)	2.5cm (1") x 17.8cm (7")	10/pk	\$72.50
M440-874	4.93mL (1 tsp)	3cm (1 3/16") x 17.8cm (7")	200/pk	\$312.83
M440-875	4.93mL (1 tsp)	3cm (13/16") x 17.8cm (7")	10/pk	\$64.75
M440-877	14.79mL (3 tsp)	4cm (1 9/16) x 17.8cm (7")	200/pk	\$307.75
M440-878	14.79mL (3 tsp)	4cm (1 9/16) x 17.8cm (7")	10/pk	\$64.27

Sterileware® Sampling Spoons

Sterileware® scoops are the perfect shape and size for taking samples, especially from wide-mouth containers.

Designed to hold various capacities, these one-piece sterile scoops are molded of high-impact polystyrene plastic. 60mL; Sterile



Part No.	Description	Qty	List
M440-829	20.5 x 4.1 x 2.9cm (8-1/16 x 1-5/8 x 1-1/8")	100/pk	\$193.58

Mini Sampler Spoons

Disposable mini measures.

These small sampling spoons are ideal for retrieving small, specific volume samples of powders or similar materials.

Use a separate spoon for each material sampled to avoid cross contamination.

Made from white high-impact polystyrene plastic.

Available in 5 sizes.



Part No.	Nominal Cap.	W x L	Qty	List
M440-745	0.05ml (0.0016 oz)	0.8cm x 7.6cm	25/cs	\$38.93
M440-746	0.10ml (0.0034 oz)	1cm x 7.3cm	25/cs	\$31.80
M440-747	0.25ml (0.0085 oz)	1.1cm x 7.3cm	25/cs	\$31.80
M440-748	0.50ml (0.017 oz)	1.4cm x 7.5cm	25/cs	\$31.80
M440-749	1.00ml (0.034 oz)	1.7cm x 7.6cm	25/cs	\$31.80

STIR BARS

Micro - PTFE Stirring Magnets

For the very smallest containers - but always use the largest stirrer bar possible.



Part No.	L x D	Qty	List
S351-180	2 x 2.0mm	1/ea	\$3.12
S351-181	3 x 3.0mm	1/ea	\$3.38
S351-182	5 x 2.0mm	1/ea	\$2.43
S351-183	6 x 3.0mm	1/ea	\$1.82
S351-184	7 x 2.0mm	1/ea	\$1.82
S351-065	8 x 1.5mm	1/ea	\$2.43
S351-598	8 x 3.0mm	1/ea	\$1.82
S351-185	10 x 3.0mm	1/ea	\$1.71
S351-186	13 x 3.0mm	1/ea	\$2.28
S351-187	15 x 1.5mm	1/ea	\$4.10
S351-188	20 x 3.0mm	1/ea	\$4.52
S351-189	30 x 3.0mm	1/ea	\$5.44

Cylindrical

Smooth round profile, a popular general-purpose stirrer for a wide variety of applications.



Part No.	L x D	Qty	List
S351-012	6 x 3mm	1/ea	\$2.47
S351-014	8 x 3mm	1/ea	\$2.68
S351-482	10 x 6mm	1/ea	\$2.98
S351-016	12 x 4.5mm	1/ea	\$2.24
S351-489	13 x 6mm	1/ea	\$2.98
S351-490	13 x 8mm	1/ea	\$3.87
S351-488	13 x 10mm	1/ea	\$4.05
S351-022	15 x 4.5mm	1/ea	\$2.42
S351-492	15 x 6mm	1/ea	\$2.78
S351-024	20 x 6mm	1/ea	\$2.81
S351-494	20 x 7mm	1/ea	\$3.26
S351-495	20 x 8mm	1/ea	\$3.36
S351-497	25 x 5mm	1/ea	\$3.53
S351-038	25 x 6mm	1/ea	\$3.09
S351-306	25 x 8mm	1/ea	\$4.10
S351-041	30 x 6mm	1/ea	\$3.38
S351-499	30 x 7mm	1/ea	\$4.24
S351-500	30 x 8mm	1/ea	\$4.44
S351-043	35 x 6mm	1/ea	\$4.44
S351-508	40 x 7mm	1/ea	\$4.36
S351-046	40 x 8mm	1/ea	\$4.15
S351-050	45 x 8mm	1/ea	\$5.72
S351-052	50 x 8mm	1/ea	\$6.36
S351-054	60 x 10mm	1/ea	\$8.48
S351-056	70 x 10mm	1/ea	\$10.65
S351-317	80 x 10mm	1/ea	\$11.51

Single Cross-Head

Designed for use with tube-like containers yet very effective as general stirrers.



Part No.	Ht x D	Qty	List
S351-483	8 x 10mm	1/ea	\$3.99
S351-484	12 x 14mm	1/ea	\$4.22
S351-485	13 x 17mm	1/ea	\$5.57
S351-487	15 x 25mm	1/ea	\$9.23
S351-491	17 x 40mm	1/ea	\$23.14
S351-493	17 x 60mm	1/ea	\$35.70

Plain

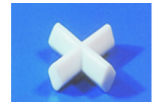
Similar action to cylindrical but gives more turbulence at low speed.



Part No.	L x D	Qty	List
S351-514	10 x 6mm	1/ea	\$1.83
S351-086	12 x 4.5mm	1/ea	\$1.88
S351-515	13 x 8mm	1/ea	\$3.42
S351-087	15 x 4.5mm	1/ea	\$1.95
S351-516	15 x 6mm	1/ea	\$2.18
S351-089	20 x 6mm	1/ea	\$2.67
S351-517	20 x 7mm	1/ea	\$2.75
S351-094	25 x 6mm	1/ea	\$2.63
S351-520	25 x 8mm	1/ea	\$4.61
S351-519	25 x 10mm	1/ea	\$5.60
S351-095	30 x 6mm	1/ea	\$3.35
S351-521	30 x 7mm	1/ea	\$3.35
S351-099	35 x 6mm	1/ea	\$4.61
S351-334	35 x 7mm	1/ea	\$4.85
S351-522	35 x 10mm	1/ea	\$5.43
S351-100	40 x 8mm	1/ea	\$3.99
S351-524	50 x 7mm	1/ea	\$6.03
S351-338	50 x 8mm	1/ea	\$6.15
S351-523	50 x 10mm	1/ea	\$6.90
S351-525	60 x 7mm	1/ea	\$6.62
S351-526	60 x 8mm	1/ea	\$7.83
S351-110	60 x 10mm	1/ea	\$8.32
S351-343	65 x 13mm	1/ea	\$11.21
S351-111	70 x 10mm	1/ea	\$9.33
S351-112	75 x 13mm	1/ea	\$11.61
S351-113	80 x 10mm	1/ea	\$10.27

Cross

A very stable general purpose stirrer.



Part No.	D	Qty	List
S351-101	10mm (3/8")	1/ea	\$3.90
S351-102	20mm (3/4")	1/ea	\$4.58
S351-177	25mm (1")	1/ea	\$5.90
S351-105	30mm (1 1/4")	1/ea	\$7.17
S351-106	38mm (1 1/2")	1/ea	\$14.62
S351-107	50mm (2")	1/ea	\$18.38
S351-108	60mm (3 3/8")	1/ea	\$28.05

Double Cross-Head

Similar to Single Cross-head but greater turbulence.



Part No.	Ht x D	Qty	List
S351-015	8 x 10mm	1/ea	\$3.84
S351-103	10 x 14mm	1/ea	\$3.89
S351-104	13 x 17mm	1/ea	\$4.89
S351-018	15 x 22mm	1/ea	\$6.53
S351-019	12 x 30mm	1/ea	\$7.59
S351-020	12 x 35mm	1/ea	\$10.27
S351-021	14 x 40mm	1/ea	\$16.25
S351-023	15 x 60mm	1/ea	\$25.53

NB: The dimensions of stirrer bars are nominal and approximate to the stated value by $\pm 5\%$ for length and $\pm 10\%$ for diameter.

Removable Ring

Use as either cylindrical or pivot ring type.



Part No.	L x D	Qty	List
S351-058	12 x 8 mm	1/ea	\$5.59
S351-061	25 x 8mm	1/ea	\$5.67
S351-062	32 x 8mm	1/ea	\$7.47
S351-512	38 x 8mm	1/ea	\$7.16
S351-063	38 x 10mm	1/ea	\$8.38
S351-064	42 x 10mm	1/ea	\$7.31
S351-513	51 x 8mm	1/ea	\$7.92
S351-144	51 x 10mm	1/ea	\$9.41
S351-066	75 x 12mm	1/ea	\$13.32
S351-057	102 x 16mm	1/ea	\$3.14
S351-059	127 x 16mm	1/ea	\$41.30
S351-060	150 x 19mm	1/ea	\$68.42

Octahedral

Similar action to pivot ring type.



Part No.	L x D	Qty	List
S351-545	13 x 3mm	1/ea	\$2.93
S351-001	13 x 8mm	1/ea	\$1.62
S351-544	13 x 10mm	1/ea	\$2.48
S351-002	15 x 8mm	1/ea	\$2.30
S351-003	22 x 8mm	1/ea	\$2.85
S351-004	25 x 8mm	1/ea	\$2.85
S351-557	25 x 10mm	1/ea	\$3.21
S351-005	28 x 8mm	1/ea	\$3.36
S351-006	38 x 8mm	1/ea	\$3.78
S351-013	38 x 10mm	1/ea	\$3.99
S351-161	41 x 8mm	1/ea	\$4.95
S351-008	51 x 8mm	1/ea	\$4.17
S351-563	51 x 10mm	1/ea	\$5.13
S351-565	64 x 8mm	1/ea	\$6.92
S351-009	64 x 10mm	1/ea	\$6.48
S351-162	75 x 13mm	1/ea	\$9.20

Pivot Ring

Use in containers with bases that are slightly curved or uneven.



Part No.	L x D	Qty	List
S351-130	8 x 3mm	1/ea	\$2.16
S351-132	12 x 4.5mm	1/ea	\$2.54
S351-534	12 x 6mm	1/ea	\$2.43
S351-535	13 x 8mm	1/ea	\$4.32
S351-133	15 x 4.5mm	1/ea	\$2.54
S351-536	15 x 8mm	1/ea	\$4.63
S351-356	20 x 6mm	1/ea	\$2.70
S351-134	25 x 6mm	1/ea	\$3.24
S351-540	25 x 10mm	1/ea	\$6.05
S351-135	30 x 6mm	1/ea	\$3.51
S351-140	35 x 6mm	1/ea	\$3.59
S351-145	40 x 8mm	1/ea	\$4.85
S351-146	45 x 8mm	1/ea	\$5.49
S351-147	50 x 8mm	1/ea	\$5.79
S351-149	60 x 10mm	1/ea	\$6.48
S351-150	70 x 10mm	1/ea	\$9.00
S351-542	75 x 13mm	1/ea	\$13.89

Square

Very effective stirrer, especially at low speeds.



Part No.	L x D	Qty	List
S351-047	12 x 4mm	1/ea	\$1.08
S351-048	25 x 5.5mm	1/ea	\$1.79
S351-049	35 x 6mm	1/ea	\$2.37
S351-051	50 x 7.5mm	1/ea	\$3.12

Plain Economy

An effective stirrer over a wide range of conditions, low prices from high volume manufacture.



Part No.	L x D	Qty	List
S351-114	12 x 3mm	1/ea	\$1.49
S351-115	25 x 8mm	1/ea	\$2.16
S351-116	40 x 8mm	1/ea	\$2.55
S351-117	50 x 8mm	1/ea	\$3.45

Cylindrical Rare Earth Samarium-Cobalt

Exceptional strength coupled with almost total resistance to demagnetisation. Identified by an inert carbon black spot.



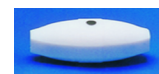
Part No.	L x D	Qty	List
S351-481	8 x 3mm	1/ea	\$5.41
S351-486	12 x 4.5mm	1/ea	\$6.70
S351-496	20 x 6mm	1/ea	\$8.48
S351-498	25 x 6mm	1/ea	\$11.56
S351-501	30 x 6mm	1/ea	\$12.42
S351-509	40 x 8mm	1/ea	\$14.58
S351-510	50 x 8mm	1/ea	\$15.15
S351-511	60 x 10mm	1/ea	\$19.06

Octahedral Rare Earth

Part No.	L x Ø	Qty	List
S351-546	13 x 3mm	1/ea	\$5.95
S351-547	13 x 8mm	1/ea	\$8.34
S351-550	15 x 8mm	1/ea	\$8.74
S351-558	25 x 8mm	1/ea	\$11.51
S351-561	38 x 8mm	1/ea	\$11.83
S351-564	51 x 8mm	1/ea	\$12.63
S351-566	64 x 8mm	1/ea	\$15.70

Elliptical Rare Earth Samarium-Cobalt

Exceptional strength coupled with almost total resistance to demagnetisation. Identified by an inert carbon black spot.



Part No.	L x D	Qty	List
S351-527	10 x 6mm	1/ea	\$6.45
S351-528	15 x 10mm	1/ea	\$10.16
S351-529	25 x 14mm	1/ea	\$13.54
S351-530	50 x 24mm	1/ea	\$37.46
S351-531	70 x 28mm	1/ea	\$68.64

NB: The dimensions of stirrer bars are nominal and approximate to the stated value by $\pm 5\%$ for length and $\pm 10\%$ for diameter.

Oval Rare Earth

Part No.	L x Ø	Qty	List
S351-568	10 x 5mm	1/ea	\$4.81
S351-569	15 x 6mm	1/ea	\$6.11
S351-570	20 x 10mm	1/ea	\$11.88
S351-572	25 x 12mm	1/ea	\$10.86
S351-575	35 x 16mm	1/ea	\$17.11
S351-577	40 x 20mm	1/ea	\$24.28
S351-579	50 x 20mm	1/ea	\$39.42
S351-580	64 x 20mm	1/ea	\$31.06

12 Octahedral Stirrer Bars

Part No.	Description	Qty	List
S351-118	12 Octahedral Stirrer Bars	1/ea	\$81.30

Contains

Part No.	L x Ø	Qty
S351-001	13 x 8mm	2/ea
S351-002	15 x 8mm	2/ea
S351-557	25 x 10mm	2/ea
S351-013	38 x 10mm	2/ea
S351-563	51 x 10mm	2/ea
S351-009	65 x 10mm	2/ea

18 Plain Stirrer Bars

Part No.	Description	Qty	List
S351-121	18 Plain Stirrer Bars	1/ea	\$121.23

Part No.	L x Ø	Qty
S351-514	10 x 6mm	2/ea
S351-516	15 x 6mm	2/ea
S351-517	20 x 7mm	2/ea
S351-520	25 x 8mm	2/ea
S351-521	30 x 7mm	2/ea
S351-100	40 x 8mm	2/ea
S351-338	50 x 8mm	2/ea
S351-525	60 x 7mm	2/ea
S351-113	80 x 10mm	2/ea

NB: The dimensions of stirrer bars are nominal and approximate to the stated value by $\pm 5\%$ for length and $\pm 10\%$ for diameter.

Stir bars listed as colored are available in red, blue and yellow.



12 Coloured Micro Stirrer Bars

Part No.	Description	Qty	List
S351-122	12 Coloured Micro Stirrer Bars	1/ea	\$55.63

Part No.	L x Ø	Qty
S351-602/603/604	8 x 1.5mm	1/ea
S351-589/590/591	5 x 2mm	1/ea
S351-595/596/597	7 x 2mm	1/ea
S351-605/606/607	10 x 3mm	1/ea



NB: The dimensions of stirrer bars are nominal and approximate to the stated value by $\pm 5\%$ for length and $\pm 10\%$ for diameter.

12 Oval Stirrer Bars

Part No.	Description	Qty	List
S351-119	12 Oval Stirrer Bars	1/ea	\$133.66

Part No.	L x Ø	Qty
S351-163	10 x 5mm	2/ea
S351-165	15 x 6mm	2/ea
S351-571	25 x 10mm	2/ea
S351-573	30 x 10mm	2/ea
S351-574	35 x 13mm	2/ea
S351-578	50 x 17mm	1/ea
S351-582	70 x 27mm	1/ea

18 Cylindrical Stirrer Bars

Part No.	Description	Qty	List
S351-120	18 Cylindrical Stirrer Bars	1/ea	\$115.46

Part No.	L x Ø	Qty
S351-482	10 x 6mm	2/ea
S351-492	15 x 6mm	2/ea
S351-494	20 x 7mm	2/ea
S351-306	25 x 8mm	2/ea
S351-500	30 x 8mm	2/ea
S351-046	40 x 8mm	2/ea
S351-052	50 x 8mm	2/ea
S351-054	60 x 10mm	2/ea
S351-317	80 x 10mm	2/ea

10 Octahedral & 2 Micro Stirrers

Part No.	Description	Qty	List
S351-127	10 Octahedral & 2 Micro Stirrers	1/ea	\$72.08

Part No.	L x Ø	Qty
S351-001	13 x 8mm	2/ea
S351-002	15 x 8mm	2/ea
S351-557	25 x 10mm	2/ea
S351-013	38 x 10mm	2/ea
S351-563	51 x 10mm	2/ea
S351-184	7 x 2mm	2/ea
S351-185	10 x 3mm	2/ea

24 Coloured Octahedral Stirrer Bars

Part No.	Description	Qty	List
S351-124	24 Coloured Octahedral Stirrer Bars	1/ea	\$153.00

Part No.	L x Ø	Qty
S352-397/398/399	13 x 3mm	1/ea
S351-017/548/549	13 x 8mm	1/ea
S351-551/552/553	15 x 8mm	1/ea
S351-554/555/556	22 x 8mm	1/ea
S351-559/025/560	25 x 8mm	1/ea
S351-562/028/030	38 x 8mm	1/ea
S351-031/031/033	51 x 8mm	1/ea
S351-035/567/036	75 x 13mm	1/ea

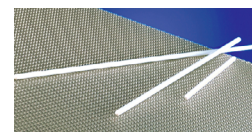


STIRRING RODS

Stirring Rods

Stirring rods are available in two versions: Pure PTFE solid stirring rod with tapered end and pure PTFE stirring rod with mild steel core.

The stirring rod version with steel core can be bent into a permanent shape. Inert and will not scratch, use up to 280°C.



Stirring Rods with Rounded Ends - Steel Core

Part No.	Length	O.D.	Qty	List
M461-563	100mm (3.9")	6mm (1/4")	4/pk	\$190.06
M460-139	150mm (5.9")	6mm (1/4")	4/pk	\$199.08
M460-140	200mm (7.9")	6mm (1/4")	4/pk	\$240.94
M461-585	250mm (9.9")	6mm (1/4")	6/cs	\$135.44
M461-586	300mm (11.8")	6mm (1/4")	6/cs	\$147.29

Stirring Rods with Flat Ends - Solid PTFE

Part No.	Length	O.D.	Qty	List
M461-587	100mm (3.9")	8mm (5/16")	4/pk	\$165.62
M461-588	150mm (5.9")	8mm (5/16")	4/pk	\$173.47
M461-589	200mm (7.9")	8mm (5/16")	4/pk	\$236.50
M461-590	250mm (9.9")	8mm (5/16")	6/pk	\$133.12
M461-591	300mm (11.8")	8mm (5/16")	6/pk	\$147.85

Stirring Rod - Polypropylene

Autoclavable to avoid contamination.

This solid, polypropylene stirring rod with rounded end is useful for mixing chemicals and liquids.

Steam autoclavable at 121°C (250°F).



Part No.	Diameter	Length	Qty	List
M441-185	4.7mm	20.3cm	6/pk	\$19.88

Stirring Rods, Glass

Stirring rods are made of soft flint glass, with both ends fire-polished and rounded.

Part No.	Length / Diameter	Qty	List
S465-004	5" / 3mm	12/pk	\$3.57
S465-003	6" / 5mm	12/pk	\$3.74
S465-002	8" / 5mm	12/pk	\$4.86
S465-001	10" / 6mm	12/pk	\$5.43
S465-000	12" / 10mm	12/pk	\$21.12
S465-023	15" / 6mm	12/pk	\$24.48



Stirring Rods, Glass with Rubber Policeman

Rubber policeman attached to glass rod facilitates scraping and mixing. Stirring rods are made of soft flint glass, with both ends fire-polished and rounded. Policemen are made of natural rubber. Pre-assembled.

Part No.	Length / Diameter	Qty	List
S465-009	5" / 3mm	12/pk	\$19.75
S465-008	6" / 5mm	12/pk	\$14.91
S465-007	8" / 5mm	12/pk	\$23.65
S465-006	10" / 6mm	12/pk	\$23.87
S465-005	12" / 10mm	12/pk	\$68.71



Stirring Rods, Plastic

Stirring rods made of polypropylene, with both ends rounded.

Part No.	Length / Diameter	Qty	List
B724-840	10" / 10mm	12/pk	\$29.34
B724-841	8" / 7mm	12/pk	\$19.75
B724-842	10" / 7mm	12/pk	\$23.52
B724-843	12" / 7mm	12/pk	\$18.95



Rubber Policeman

Made of natural rubber. Ideal for scraping and mixing applications in the laboratory.



Part No.	Description	Qty	List
S465-074	Fits 5mm and 6mm Diameter Rods	12/pk	\$4.32
S465-075	Fits 10mm Diameter Rods	12/pk	\$13.97

TAPE

Autoclave

Indicator Tape for Steam Autoclaves – Sterilized

Ink Color: Indicator
 Adhesive: Removable
 Imprint: STERILIZED / STERILIZED



Part No.	Size	Core Size	Label Color	Qty	List
T218-295	1 x 500"	1"	White	Roll	\$19.20
T218-296	1 x 2160"	3"	White	Roll	\$48.43
T218-297	1/2 x 500"	1"	White	Roll	\$11.33
T218-298	1/2 x 2160"	3"	White	Roll	\$29.30
T218-299	3/4 x 500"	1"	White	Roll	\$15.40
T218-300	3/4 x 2160"	3"	White	Roll	\$40.57

Kartell Autoclave Dry Heat Sterilization Tape

Kartell Autoclave Tape and Heat Sterilization Tape is used to enhance confidence that sterilization has occurred. M460-001 Autoclave Tape is used with autoclave sterilization. Stripes turn dark brown after 20 minutes at 121C. The tape indicates that autoclave temperature has been attained. M460-002 Dry Heat Sterilization Tape is for use with Dry Heat Sterilization. The "V" stamp changes color from light green to brown, after 30 minutes at 155C indicating that a Dry Heat Sterilization temperature has been attained. Color changes from white to brown for both products. These tapes conform with ISO 11140/2005.



Part No.	Description	Qty	List
M460-001	Autoclave Sterility Tape 50 Meter	Roll	\$36.88
M460-002	Dry Heat Sterility Tape 50 Meter	Roll	\$96.00

Indicator Tape for Steam Autoclaves – Contaminated / Sterilized

Ink Color: Indicator
 Adhesive: Removable
 Core Size: 3"



Part No.	Size	Label Color	Imprint	Qty	List
T218-268	1 x 2160"	White	CONTAMINATED/ STERILIZED	Roll	\$52.27

Information Indicator Tape for Steam Autoclaves – Sterilized

Ink Color: Indicator
 Adhesive: Removable
 Core Size: 3"



Part No.	Size	Label Color	Imprint	Qty	List
T218-269	1 x 2160"	White	STERILIZED / BATCH	Roll	\$52.27

Color Coded Indicator Tape for Steam Autoclaves – Sterilized

Ink Color: Indicator
 Adhesive: Removable
 Core Size: 3"

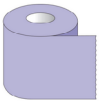


Part No.	Size	Label Color	Ink Color / Imprint	Qty	List
T218-270	1 x 2160"	White	Yellow / STERILIZED	Roll	\$52.27
T218-271	1 x 2160"	White	Black / STERILIZED	Roll	\$52.27
T218-272	1 x 2160"	White	Green / STERILIZED	Roll	\$52.27
T218-273	1 x 2160"	White	Red / STERILIZED	Roll	\$52.27
T218-274	1 x 2160"	White	Blue / STERILIZED	Roll	\$52.27



Labeling**Color Coded Multi-Purpose Labeling Tape – 1” Cores**

Adhesive: Removable
Roll Size: 1 x 500”



Part No.	Label Color	Qty	List
T219-192	Fluorescent Pink	1/Roll	\$16.83
T219-193	Red	1/Roll	\$16.83
T219-194	Orange	1/Roll	\$16.83
T219-195	Blue	1/Roll	\$16.83
T219-196	Pink	1/Roll	\$16.83
T219-197	Tan	1/Roll	\$16.83
T219-199	Multi Color	12/Roll	\$201.83
T219-172	Lavender	1/Roll	\$16.83
T219-173	Gray	1/Roll	\$16.83
T219-174	Lime	1/Roll	\$16.83
T219-175	Aqua	1/Roll	\$16.83
T219-176	Chartreuse	1/Roll	\$16.83
T219-177	Gold	1/Roll	\$16.83
T219-178	Silver	1/Roll	\$16.83
T219-179	Yellow	1/Roll	\$16.83
T219-180	Magenta	1/Roll	\$16.83

Part No.	Label Color	Qty	List
T219-181	Dark Red	1/Roll	\$16.83
T219-182	Maroon	1/Roll	\$16.83
T219-183	Dark Brown	1/Roll	\$16.83
T219-184	Dark Blue	1/Roll	\$16.83
T219-185	Dark Green	1/Roll	\$16.83
T219-186	Black	1/Roll	\$16.83
T219-187	Fluorescent Red	1/Roll	\$16.83
T219-188	Fluorescent Orange	1/Roll	\$16.83
T219-189	Fluorescent Green	1/Roll	\$16.83
T219-190	Green	1/Roll	\$16.83
T219-191	Fluorescent Chartreuse	1/Roll	\$16.83
T219-168	White	1/Roll	\$16.83
T219-169	Copper	1/Roll	\$16.83
T219-170	Rose	1/Roll	\$16.83
T219-171	Violet	1/Roll	\$16.83

Color Coded Multi-Purpose Labeling Tape – 1” Cores

Adhesive: Removable
Roll Size: 1/2 x 500”



Part No.	Label Color	Qty	List
T219-312	Fluorescent Red	1/Roll	\$10.03
T219-313	Fluorescent Orange	1/Roll	\$10.03
T219-314	Fluorescent Green	1/Roll	\$10.03
T219-315	Green	1/Roll	\$10.03
T219-316	Fluorescent Chartreuse	1/Roll	\$10.03
T219-317	Fluorescent Pink	1/Roll	\$10.03
T219-318	Red	1/Roll	\$10.03
T219-319	Orange	1/Roll	\$10.03
T219-320	Blue	1/Roll	\$10.03
T219-321	Pink	1/Roll	\$10.03
T219-322	Tan	1/Roll	\$10.03
T219-323	Salmon	1/Roll	\$10.03
T219-324	Multi Color	24/Roll	\$240.87
T219-293	White	1/Roll	\$10.03
T219-294	Copper	1/Roll	\$10.03
T219-295	Rose	1/Roll	\$10.03

Part No.	Label Color	Qty	List
T219-296	Violet	1/Roll	\$10.03
T219-297	Lavender	1/Roll	\$10.03
T219-298	Gray	1/Roll	\$10.03
T219-299	Lime	1/Roll	\$10.03
T219-300	Aqua	1/Roll	\$10.03
T219-301	Chartreuse	1/Roll	\$10.03
T219-302	Gold	1/Roll	\$10.03
T219-303	Silver	1/Roll	\$10.03
T219-304	Yellow	1/Roll	\$10.03
T219-305	Magenta	1/Roll	\$10.03
T219-306	Dark Red	1/Roll	\$10.03
T219-307	Maroon	1/Roll	\$10.03
T219-308	Dark Brown	1/Roll	\$10.03
T219-309	Dark Blue	1/Roll	\$10.03
T219-310	Dark Green	1/Roll	\$10.03
T219-311	Black	1/Roll	\$10.03

Color Coded Multi-Purpose Labeling Tape – 1” Cores

Adhesive: Removable
Roll Size: 3/4 x 500”

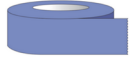


Part No.	Label Color	Qty	List
T219-432	Maroon	1/Roll	\$13.30
T219-433	Dark Brown	1/Roll	\$13.30
T219-434	Dark Blue	1/Roll	\$13.30
T219-435	Dark Green	1/Roll	\$13.30
T219-436	Black	1/Roll	\$13.30
T219-437	Fluorescent Red	1/Roll	\$13.30
T219-438	Fluorescent Orange	1/Roll	\$13.30
T219-441	Fluorescent Chartreuse	1/Roll	\$13.30
T219-442	Fluorescent Pink	1/Roll	\$13.30
T219-443	Red	1/Roll	\$13.30
T219-444	Orange	1/Roll	\$13.30
T219-445	Blue	1/Roll	\$13.30
T219-446	Pink	1/Roll	\$13.30
T219-447	Tan	1/Roll	\$13.30

Part No.	Label Color	Qty	List
T219-448	Salmon	1/Roll	\$12.30
T219-449	Multicolor	16/Roll	\$213.47
T219-418	White	1/Roll	\$13.30
T219-419	Copper	1/Roll	\$13.30
T219-420	Rose	1/Roll	\$13.30
T219-421	Violet	1/Roll	\$13.30
T219-422	Lavender	1/Roll	\$13.30
T219-423	Gray	1/Roll	\$13.30
T219-424	Lime	1/Roll	\$13.30
T219-425	Aqua	1/Roll	\$13.30
T219-426	Chartreuse	1/Roll	\$13.30
T219-427	Gold	1/Roll	\$13.30
T219-428	Silver	1/Roll	\$13.30
T219-429	Yellow	1/Roll	\$13.30
T219-430	Magenta	1/Roll	\$13.30
T219-431	Dark Red	1/Roll	\$13.30

Color Coded Multi-Purpose Labeling Tape – 3” Cores

Adhesive: Removable
 Roll Size: 1/2" x 60 YD (2160")



Part No.	Label Color	Qty	List
T219-292	Salmon	1/Roll	\$25.70
T219-272	Silver	1/Roll	\$25.70
T219-273	Yellow	1/Roll	\$25.70
T219-274	Magenta	1/Roll	\$25.70
T219-275	Dark Red	1/Roll	\$25.70
T219-276	Maroon	1/Roll	\$25.70
T219-277	Dark Brown	1/Roll	\$25.70
T219-278	Dark Blue	1/Roll	\$25.70
T219-279	Dark Green	1/Roll	\$25.70
T219-280	Black	1/Roll	\$25.70
T219-281	Fluorescent Red	1/Roll	\$25.70
T219-282	Fluorescent Orange	1/Roll	\$25.70
T219-283	Fluorescent Green	1/Roll	\$25.70
T219-284	Green	1/Roll	\$25.70
T219-285	Fluorescent Chartreuse	1/Roll	\$25.70
T219-286	Fluorescent Pink	1/Roll	\$25.70

Part No.	Label Color	Qty	List
T219-287	Red	1/Roll	\$25.70
T219-288	Orange	1/Roll	\$25.70
T219-289	Blue	1/Roll	\$25.70
T219-290	Pink	1/Roll	\$25.70
T219-291	Tan	1/Roll	\$25.70
T219-262	White	1/Roll	\$25.70
T219-263	Copper	1/Roll	\$25.70
T219-264	Rose	1/Roll	\$25.70
T219-265	Violet	1/Roll	\$25.70
T219-266	Lavender	1/Roll	\$25.70
T219-267	Gray	1/Roll	\$25.70
T219-268	Lime	1/Roll	\$25.70
T219-269	Aqua	1/Roll	\$25.70
T219-270	Chartreuse	1/Roll	\$25.70
T219-271	Gold	1/Roll	\$25.70

Color Coded Multi-Purpose Labeling Tape – 3” Cores

Adhesive: Removable
 Roll Size: 1 x 60 YD (2160")



Part No.	Label Color	Qty	List
T219-152	Dark Brown	1/Roll	\$45.77
T219-153	Dark Blue	1/Roll	\$45.77
T219-154	Dark Green	1/Roll	\$45.77
T219-155	Black	1/Roll	\$45.77
T219-156	Fluorescent Red	1/Roll	\$45.77
T219-157	Fluorescent Orange	1/Roll	\$45.77
T219-158	Fluorescent Green	1/Roll	\$45.77
T219-159	Green	1/Roll	\$45.77
T219-160	Fluorescent Chartreuse	1/Roll	\$45.77
T219-161	Fluorescent Pink	1/Roll	\$45.77
T219-162	Red	1/Roll	\$45.77
T219-163	Orange	1/Roll	\$45.77
T219-164	Blue	1/Roll	\$45.77
T219-165	Pink	1/Roll	\$45.77
T219-166	Tan	1/Roll	\$45.77
T219-167	Salmon	1/Roll	\$45.77

Part No.	Label Color	Qty	List
T219-137	White	1/Roll	\$45.77
T219-138	Copper	1/Roll	\$45.77
T219-139	Rose	1/Roll	\$45.77
T219-140	Violet	1/Roll	\$45.77
T219-141	Lavender	1/Roll	\$45.77
T219-142	Gray	1/Roll	\$45.77
T219-143	Lime	1/Roll	\$45.77
T219-144	Aqua	1/Roll	\$45.77
T219-145	Chartreuse	1/Roll	\$45.77
T219-146	Gold	1/Roll	\$45.77
T219-147	Silver	1/Roll	\$45.77
T219-148	Yellow	1/Roll	\$45.77
T219-149	Magenta	1/Roll	\$45.77
T219-150	Dark Red	1/Roll	\$45.77
T219-151	Maroon	1/Roll	\$45.77

Color Coded Multi-Purpose Labeling Tape – 3” Cores

Adhesive: Removable
 Roll Size: 3/4" x 60 YD (2160")



Part No.	Label Color	Qty	List
T219-412	Red	1/Roll	\$35.50
T219-413	Orange	1/Roll	\$35.50
T219-414	Blue	1/Roll	\$35.50
T219-415	Pink	1/Roll	\$35.50
T219-416	Tan	1/Roll	\$35.50
T219-417	Salmon	1/Roll	\$35.50
T219-392	Gray	1/Roll	\$35.50
T219-393	Lime	1/Roll	\$35.50
T219-394	Aqua	1/Roll	\$35.50
T219-395	Chartreuse	1/Roll	\$35.50
T219-396	Gold	1/Roll	\$35.50
T219-397	Silver	1/Roll	\$35.50
T219-398	Yellow	1/Roll	\$35.50
T219-399	Magenta	1/Roll	\$35.50
T219-400	Dark Red	1/Roll	\$35.50
T219-401	Maroon	1/Roll	\$35.50

Part No.	Label Color	Qty	List
T219-402	Dark Brown	1/Roll	\$35.50
T219-403	Dark Blue	1/Roll	\$35.50
T219-404	Dark Green	1/Roll	\$35.50
T219-405	Black	1/Roll	\$35.50
T219-406	Fluorescent Red	1/Roll	\$35.50
T219-407	Fluorescent Orange	1/Roll	\$35.50
T219-408	Fluorescent Green	1/Roll	\$35.50
T219-409	Green	1/Roll	\$35.50
T219-410	Fluorescent Chartreuse	1/Roll	\$35.50
T219-411	Fluorescent Pink	1/Roll	\$35.50
T219-387	White	1/Roll	\$35.50
T219-388	Copper	1/Roll	\$35.50
T219-389	Rose	1/Roll	\$35.50
T219-390	Violet	1/Roll	\$35.50
T219-391	Lavender	1/Roll	\$35.50



Tape Dispensers

Write-On Multi-Roll Label Tape Dispensers

Mix tape colors and widths to suit your labeling needs U.S. Patent 6,974,060.

Write-On™ Label Tape Dispensers provide a smooth writing surface, making labeling easy and fast. When marked tape is advanced and cut off on the serrated edge, a fresh length of label tape is positioned on the writing platform.

Various width and color tape rolls can be mixed together on the spindles; easily accommodate 5 or more 12 - 19mm (1/2 - 3/4") narrow rolls or 4 - 25mm (1") wide rolls.

Spindles are easily removed from the unit for loading and unloading; can be adjusted to hold either 25 or 75mm (1 or 3") core diameter rolls.

Dispenser includes three plastic separating discs to assure smooth, snag free dispensing for up to four rolls of tape.

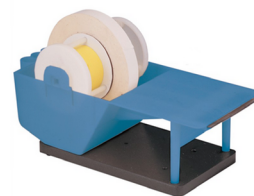
Additional separating discs available separately (M440-059).

Molded-in pen holder wells help keep writing instruments handy.

Two models are available:

A. Bench-Top / Desk Dispenser (M440-060) has a plastic coated, weighted steel base with rubber feet to prevent slipping on the benchtop. The serrated cutting edge is steel for long term use. Includes one free roll of 1/2", White, Write-On™ Labeling Tape.

B. Economy Dispenser (M440-061) is designed for lighter duty use as the plastic cutting edge is molded into the housing. Includes mounting holes for secure attachment to a benchtop (screws not supplied). Can also be attached to vertical surfaces using Wall Mount adapter (M440-062). Includes one free roll of 1/2" White, Write-On™ Labeling Tape.



Part No.	Description	Dimensions (L x W x H)	Qty	List
M440-060	Benchtop Model	30.2 x 14.3 x 12.1cm (12 x 5 5/8 x 4 3/4")	1/ea	\$199.58
M440-061	Economy Model	30.2 x 14.3 x 10.5cm (12 x 5 5/8 x 4 1/8")	1/ea	\$62.03

Write-On Single Roll Label Tape Dispenser

Make your own stick-on labels.

Convenient dispenser holds and releases tape cut to your specification.

Writing platform accommodates both left and right handed users for labeling tape prior to dispensing.

Epoxy-coated steel platform has finger holes for releasing the tape and a cut off edge for one hand use.

Weighted base with non-skid pads prevents sliding or lifting.

7.6cm (3") core fits standard tape rolls up to 25mm (1") wide.

Accepts tape rolls having a maximum diameter of 13.3cm (5 1/4").

Base dimensions: 21.3 x 8.7 x 9.5cm H (8 3/8 x 3 3/8 x 3 3/4") with a 10.2 x 15.2cm (4 x 6") platform.



Part No.	Description	Qty	List
M440-055	Single Roll Label Dispenser	1/ea	\$152.75

Wall Mount Adapter for Economy Write-On Label Tape Dispenser

Allows the Economy Model Dispenser (M440-061) to be wall mounted vertically or horizontally with the platform positioned to the left or right.

U-shaped stainless steel adapter presents the dispenser at a 45° angle off the wall to facilitate writing.

Wet Surface Pen (M440-036) offers consistent ink flow on vertical surfaces.



Part No.	Description	Dimensions	Qty	List
M440-062	Wall Mount Adapter	11 x 13cm (4 1/2 x 5 1/8")	1/ea	\$13.95

Multi-Roll Tape Dispenser

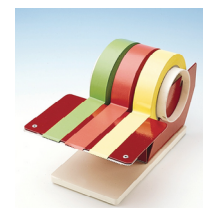
Flat writing surface helps make neater labels.

Scienceware® Write-On™ Labeling Tape or any tape with a 7.6cm (3") ID core will fit on the drum of this multi-roll dispense.

Large writing surface, 10.2 x 15.2cm (4" x 6") for preparing tape labels.

Built in serrated cutting edge.

Includes disks to prevent rolls from binding against each other.



Part No.	Dimensions (L x W x H)	Qty	List
M440-058	26 x 15 x 11cm (10 1/4 x 6 x 4 3/8")	1/ea	\$311.75

Don't forget your lab markers!



Stationary Tape Dispenser for 2160" Rolls

Part No.	Description	Qty	List
T217-499	2" Wide	1/ea	\$197.67
T217-500	6" Wide	1/ea	\$233.53



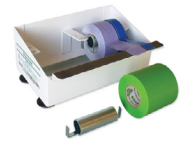
Multiple Tape Dispenser for 2160" Rolls

Part No.	Description	Qty	List
T213-093	13-3/8 x 7"	1/ea	\$301.77



Multiple Tape Dispenser for 500" Rolls

Part No.	Description	Qty	List
T213-094	6-1/2 x 5"	1/ea	\$132.03
T213-095	9-1/2 x 5"	1/ea	\$144.60
T213-096	12-1/8 x 5"	1/ea	\$157.20



TEST KITS

Acidity Test Kit

Applications: Environmental education, industrial water boiling and cooling, water and wastewater.

This kit measures for acidity by using the phenolphthalein endpoint to determine hydrochloric, sulfuric and phosphoric acids.

Range/sensitivity is 1 drop = 0.1 or 1.0% (as the particular acid).

Tests: 50 at 10%

Reagents: 2



Part No.	Test System	Qty	List
K442-096	HCl, H ₂ SO ₄ , H ₃ PO ₄ Dropper Bottle	1/kit	\$56.55

Alkalinity & Calcium Hardness Test Kit

Applications: Pool and Spa

Alkalinity & Calcium Hardness Test Kit. The Alkalinity and Calcium Hardness TesTabs® test kit uses one tablet per test factor which is added to a test tube of water sample to develop a color. Sample water is added performing a back titration until an endpoint color change occurs. The results are read directly from the test tube which measures Alkalinity and Calcium Hardness from 60 to 400 ppm. The kit includes simple to read instructions, 30 TesTabs® tablets, a water sample bottle along with a preprinted test tube with Alkalinity and Calcium Hardness levels.



Part No.	Description	Qty	List
K440-865	Alkalinity & Calcium Hardness Test Kit	1/kit	\$30.53

Alkalinity in Water Test Kit

Applications: Pool and spa, drinking water, industrial water boiling and cooling, water and wastewater.

This kit tests for Alkalinity using the dropper bottle method.

Range/sensitivity is 1 drop = 10, 25 or 50 ppm as CaCO₃.

Tests: 100 at 500 ppm

Reagents: 3



Part No.	Test System	Qty	List
K442-105	P & T Alkalinity Dropper Bottle	1/kit	\$64.33

Alkalinity Test Kit

Applications: Drinking water, industrial water boiling and cooling, water and wastewater

This Alkalinity Test Kits uses a direct reading titrator with standard acid to the phenolphthalein (P) and/or total (T) alkalinity endpoint.

Range and sensitivity is 0-200 ppm as CaCO₃ in 4 ppm increments.

Tests: 50 at 200 ppm



Part No.	Test System	Qty	List
K440-850	Direct Reading Titrator for P&T Alkalinity	1/kit	\$83.74



Alkalinity Test Kit

Applications: Industrial water boiling and cooling, water and wastewater.

This Alkalinity Test Kits uses a dropper pipet with standard acid to the phenolphthalein (P) and/or total (T) alkalinity endpoint.

Range and sensitivity is 1 drop = 10 ppm as CaCO₃.

Tests: 50 at 200 ppm

Reagents: 3



Part No.	Test System	Qty	List
K441-290	P & T Alkalinity Dropper Pipet	1/kit	\$67.95

Ammonia Nitrogen Test Kit

Applications: Environmental education, food and beverage, industrial water boiling and cooling, laundry and sanitation, water and wastewater.

In this Ammonia Nitrogen test kit, salicylate reacts to form a blue color and levels are determined using the Octet Comparator. Suitable for use in fresh, brackish and salt water.

Range and sensitivity is 0.0 - 2.0 ppm NH₃-N.

Tests: 50

Reagents: 3



Part No.	Test System	Qty	List
K440-809	Salicylate Octa-Slide 2	1/kit	\$113.16

Calcium, Magnesium & Total Hardness Test Kit

Applications: Industrial water boiling and cooling, water and wastewater.

This kit tests for Total, Calcium and magnesium hardness by using the dropper bottle method.

All results are as CaCO₃. Range/sensitivity is 1 drop = 10 ppm or 1 gpg CaCO₃.

Tests: 50 at 200 ppm or 20 gpg

Reagents: 5



Part No.	Test System	Qty	List
K441-357	Total Hardness Dropper Bottle	1/kit	\$80.80

Chloride Test Kit

Applications: Environmental education, aquarium and fish farming.

This kit tests for Chloride in fresh water samples using the direct reading titrator method.

Range/Sensitivity is 0-200 ppm Cl in 4.0 ppm increments.

Tests: 50

Reagents: 4



Part No.	Test Method	Qty	List
K441-275	Direct Reading Titrator	1/kit	\$67.41

Dissolved Oxygen Test Kit

Applications: Food and beverage, environmental education, industrial water boiling and cooling, laundry and sanitation, water and wastewater.

The LaMotte Dissolved Oxygen Test Kit tests for dissolved oxygen levels using the direct reading titrator method.

Range/sensitivity is 0-10 ppm/0.2 ppm O₂.



Part No.	Test System	Range/Sensitivity	# Tests (# Rgts)	List
K441-628	Direct Reading Titrator	0-10 ppm/0.2 ppm O ₂	50 at 10 ppm (5)	\$72.35

We have multiple chemical indicators available

Adsorption

Complexometric

Dry

Oxidation-reduction

pH

And more!

Alkalinity Test Kit

Methods

The alkalinity of water is a measurement of its buffering capacity. Alkalinity of natural waters is typically a combination of bicarbonate, carbonate and hydroxide ions. Sewage and wastewaters usually exhibit higher alkalinities due to the presence of silicates and phosphates. Alkalinity inhibits corrosion in boiler and cooling waters. It is also measured as a means of controlling water and wastewater treatment processes or the quality of various process waters.

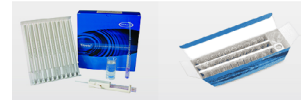
Alkalinity (total)

References: ASTM D 1067-06, Acidity or Alkalinity of Water, Test Method B. APHA Standard Methods, 22nd ed., Method 2320 B - 1997. USEPA Methods for Chemical Analysis of Water and Wastes, Method 310.1 (1983). CHEMetrics' total alkalinity tests determine total or M alkalinity using a hydrochloric acid titrant and a bromocresol green/methyl red indicator. The end point of the titration occurs at pH 4.5. Results are expressed as ppm (mg/L) CaCO₃.

Alkalinity (hydrate)

References: Developed with Calgon Corporation. APHA Standard Methods, 22nd ed., Method 2320 B - 1997.

Hydrate alkalinity is a component of total alkalinity. Boiler operators must maintain relatively high hydrate alkalinity levels when phosphate cycle treatments are used to ensure the formation of softer, more easily removable deposits. This specific test for hydrate alkalinity provides a more accurate value than the calculation method. For hydrate alkalinity, CHEMetrics developed a titrimetric method that uses a hydrochloric acid titrant with a phenolphthalein indicator. The end point of the titration occurs at pH 8.3. Barium chloride is added to the sample to prevent interference from carbonate and bicarbonate alkalinity. Results are expressed as ppm (mg/L) NaOH.



Visual Kits Method: Acid Titrant with pH Indicator

Part No.	Range	MDL	Qty	List
V150-435	10-100 ppm as CaCO ₃ (Total)	10 ppm	1/kit	\$45.07
V150-436	50-500 ppm as CaCO ₃ (Total)	50 ppm	1/kit	\$45.07
V150-437	100-1000 ppm as CaCO ₃ (Total)	100 ppm	1/kit	\$45.07
V150-321	100-1000 ppm as NaOH (Hydrate)	100 ppm	1/kit	\$45.07

Ammonia Test Kit

Methods

Low-level ammonia nitrogen may be naturally present in water as a result of the biological decay of plant and animal matter. Higher concentrations in surface waters can indicate contamination from waste treatment facilities, raw sewage, industrial effluents (particularly from petroleum refineries) or fertilizer runoff. Excessive ammonia concentrations are toxic to aquatic life.

The Direct Nesslerization Method

Reference: ASTM D 1426-08, Ammonia Nitrogen in Water, Test Method A. APHA Standard Methods, 18th ed., Method 4500-NH₃ C - 1988. The test kits employing the well-established Nessler reagent* to determine ammonia concentrations are applicable to drinking water, clean surface water, good-quality nitrified wastewater effluent and seawater. In some waters, calcium and magnesium concentrations can cause cloudiness of the reagent. Adding a few drops of stabilizer solution (Rochelle Salt) will prevent this cloudiness. References recommend distilling samples prior to analysis. Results are expressed as ppm (mg/L) ammonia-nitrogen, NH₃-N.

Shelf-life: although the Nessler reagent is stable, its high alkali content attacks the glass ampoule. The resulting precipitate interferes with color comparison. We recommend stocking quantities of CHEMetrics® and VACUettes® ampoules that will be used within five months. A two-month supply of Vacu-vials ampoules is suggested. Refrigeration will dramatically extend the shelf-life of these products.

*Contains mercury. Dispose according to local, state or federal laws.

The Hydroxybenzyl Alcohol (HBA) Method

References: Krom, Michael D., Spectrophotometric Determination of Ammonia: A Study of a Modified Berthelot Reduction Using Salicylate and Dichloroisocyanurate, The Analyst, V105, pp. 305-316, 1980. In the ammonia test method that employs the Hydroxybenzyl Alcohol chemistry, free ammonia reacts with hypochlorite to form monochloramine. Monochloramine reacts with HBA, in the presence of sodium nitroferrocyanide, to form a green colored complex. This test method measures the sum of free ammonia and monochloramine. Results are expressed in ppm (mg/L) ammonia-nitrogen, NH₃-N. The Hydroxybenzyl Alcohol Method offers sensitivity similar to the Nesslerization Method and there is no generation of mercury-containing waste.



Visual Kits

Part No.	Range	MDL	Method	Qty	List
V150-258	0-4 & 0-80 ppm	0.125 ppm	Hydroxybenzyl Alcohol	1/kit	\$76.19
V150-260	0-125 & 0-2500 ppm	8 ppm	Hydroxybenzyl Alcohol	1/kit	\$98.15
V150-259	0-500 & 0-10,000 ppm	30 ppm	Hydroxybenzyl Alcohol	1/kit	\$98.15
V150-262*	0-1 & 1-10 ppm	0.05 ppm	Direct Nesslerization	1/kit	\$91.22
V150-266*	0-30 & 30-300 ppm	5 ppm	Direct Nesslerization	1/kit	\$95.29
V150-263*	0-60 & 60-600 ppm	10 ppm	Direct Nesslerization	1/kit	\$95.29
V150-264	*0-120 & 120-1200 ppm	20 ppm	Direct Nesslerization	1/kit	\$95.29
V150-265*	0-1000 & 1000-10,000 ppm	100 ppm	Direct Nesslerization	1/kit	\$96.28

Instrumental Kits

Part No.	Range	Method	Qty	List
V150-257	0-3.00 & 0-60.0 ppm	Hydroxybenzyl Alcohol (HBA)	1/kit	\$41.41
V150-261*	0-7.00 ppm	Direct Nesslerization	1/kit	\$43.42
V150-267*	0-14.0 ppm	Direct Nesslerization	1/kit	\$43.42

Indicator Strips can be found on pages 393-399.



Chloride Kits

Methods

Chloride is the most common inorganic anion found in water and wastewater. The Maximum Secondary Contaminant Level for drinking water for chloride is 250 mg/L. Natural sources of salt are the ocean and various salt deposits above and below ground.

Chloride is very corrosive to most metals in systems with elevated pressures and temperatures such as boilers and oil-drilling equipment.

The Mercuric Nitrate Method

References: APHA Standard Methods, 22nd ed., Method 4500-Cl- C-1997. ASTM D 512-04, Chloride Ion in Water, Test Method A. USEPA Methods for Chemical Analysis of Water and Wastes, Method 325.3 (1983).

CHEMetrics employs a mercuric nitrate titrant in acid solution with diphenylcarbazone as the end point indicator. Results are expressed as ppm (mg/L) Cl⁻.

The Ferric Thiocyanate Method

Reference: APHA Standard Methods, 22nd ed., 4500-Cl-E-1997. D. Zall, D. Fisher, M. Garner, "Photometric Determination of Chlorides in Water," Analytical Chemistry, Vol 28, No. 11, pp. 1665-1668, November 1956. J. O'Brien, "Automatic Analysis of Chlorides in Sewage," Wastes Engineering, pp. 670-672, December 1962.

The Chloride Vacu-vials® test employs the ferric thiocyanate chemistry. Chloride reacts with mercuric thiocyanate to liberate thiocyanate ion. Ferric ion reacts with thiocyanate ion to produce an orange-brown thiocyanate complex in proportion to the chloride concentration. Results are expressed as ppm (mg/L) Cl⁻.

*Contains mercury. Dispose according to local, state or federal laws.



Visual Kits Method: Mercuric Nitrate

Part No.	Range	MDL	Qty	List
V150-275*	20-200 ppm	20 ppm	1/kit	\$45.07
V150-276*	50-500 ppm	50 ppm	1/kit	\$45.07
V150-277*	250-2500 ppm	250 ppm	1/kit	\$45.07
V150-278*	1000-10,000 ppm	1000 ppm	1/kit	\$45.95
V150-279*	10,000-100,000 ppm	10,000 ppm	1/kit	\$45.07

Instrumental Kits Method: Ferric Thiocyanate

Part No.	Range	Qty	List
V150-280*	0-40.0 ppm	1/kit	\$43.39

Chemical Oxygen Demand (COD)

Methods

The determination of Chemical Oxygen Demand (COD) is widely used in municipal and industrial laboratories to measure the overall level of organic contamination in wastewater. The contamination level is determined by measuring the equivalent amount of oxygen required to oxidize organic matter in the sample.

The Dichromate Reactor Digestion Method

References: USEPA Methods for Analysis of Water and Wastes, Method 410.4 (1983). APHA Standard Methods, 22nd ed., Method 5220 D-1997. A. M. Jirka and M. J. Carter, "Micro Semi-Automated Analysis of Surface and Wastewaters for Chemical Oxygen Demand," Analytical Chemistry, Vol. 47, p.1397 (1975). J. A. Winter, "Method Research Study 3, Demand Analysis, An Evaluation of Analytical Methods for Water and Wastewater," USEPA, 1971. ASTM D 1252-00, Chemical Oxygen Demand (Dichromate Oxygen Demand) of Water, Test Method B. CHEMetrics offers two dichromate reactor digestion methods for fast, easy, safe determinations of low-, mid- and high-range COD levels in wastewater: the USEPA-accepted Method* and a mercury-free method. The products using the USEPA-accepted method contain mercuric sulfate in the reagent to eliminate chloride interferences. The mercury-free product line is applicable when chloride interference is not a concern and USEPA reporting is not required. CHEMetrics' leakproof reagent vials contain premeasured solutions of sulfuric acid and potassium dichromate. To perform the COD determination, the analyst simply removes the Teflon-lined screw cap from the vial, adds sample to the vial and replaces the cap. The vial is then heated for two hours at 150°C in a standard digester block. Once digestion is completed, results are obtained using any photometer that accepts 16-mm diameter cells. CHEMetrics COD vials can be directly used in our V150-529 multi-analyte photometer, CHEMetrics' single analyte COD photometers, as well as in many Hach1 spectrophotometers. Built-in Hach COD methods and calibrations can be used without the need for a new calibration. A generic calibration equation is included within the CHEMetrics™ kit for use with other spectrophotometers.

*Contains mercury. Dispose according to local, state or federal laws.



Instrumental Kits Method: Dichromate Reactor Digestion

Part No.	Range	Qty	List
V150-378*	0-150 ppm (LR) USEPA-accepted*	25/pk	\$41.57
V150-001*	0-150 ppm (LR) USEPA-accepted*	150/pk	\$206.12
V150-379	0-150 ppm (LR) Mercury-free	25/pk	\$41.57
V150-004	0-150 ppm (LR) Mercury-free	150/pk	\$206.12
V150-380*	0-1500 ppm (HR) USEPA-accepted*	25/pk	\$41.57
V150-002*	0-1500 ppm (HR) USEPA-accepted*	150/pk	\$206.12
V150-381	0-1500 ppm (HR) Mercury-free	25/pk	\$41.57
V150-382	0-1500 ppm (HR) Mercury-free	150/pk	\$206.12
V150-383*	0-15,000 ppm (HR+) Not USEPA Approved*	25/pk	\$41.57
V150-003*	0-15,000 ppm (HR+) Not USEPA Approved*	98/pk	\$137.42
V150-384	0-15,000 ppm (HR+) Mercury-free	25/pk	\$41.57
V150-385	0-15,000 ppm (HR+) Mercury-free	98/pk	\$137.42

Hardness Test Kits

Methods

Hardness is a measure of the mineral content of water. Calcium and magnesium are the most common minerals that contribute to hardness. Hard water causes scaling in boilers and other industrial equipment and diminishes the effectiveness of soaps and detergents.

The EGTA Method (calcium)

Reference: West, T. S., DSC, Ph.D., Complexometry with EDTA and Related Reagents, 3rd. ed., pp. 46, 164 (1969).

The EGTA method is specific for calcium hardness. The EGTA titrant in alkaline solution is employed with a zincon indicator. Results are expressed as ppm (mg/L) CaCO₃.

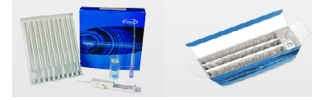
Shelf-life: eight months. Although the reagent itself is stable, the end point indicator has a limited shelf-life. We recommend stocking quantities that will be used within seven months.

The EDTA Method (total)

References: APHA Standard Methods, 22nd ed., Method 2340 C- 1997. USEPA Methods for Chemical Analysis of Water and Wastes, Method 130.2 (1983).

The total hardness method is applicable to drinking, surface, boiler and brine waters.

The EDTA titrant is employed in alkaline solution with a calmagite indicator. This method determines the combined calcium and magnesium concentration of a sample. If no magnesium is present, the end point of the titration normally appears sluggish. Results are expressed as ppm (mg/L) CaCO₃.



Visual Kits

Part No.	Range	MDL	Method	Qty	List
V150-270	50-500 ppm as CaCO ₃	50 ppm	EGTA (Calcium)	1/kit	\$45.07
V150-313	2-20 ppm as CaCO ₃	2.0 ppm	EDTA (Total)	1/kit	\$45.07
V150-314	20-200 ppm as CaCO ₃	20 ppm	EDTA (Total)	1/kit	\$45.07
V150-315	100-1000 ppm as CaCO ₃	100 ppm	EDTA (Total)	1/kit	\$45.07

Oxygen (Dissolved)

Dissolved Oxygen Test Kits Testing for Dissolved Oxygen DO water testing kits

Methods

The level of dissolved oxygen in natural waters is often a direct indication of quality, since aquatic plants produce oxygen, while microorganisms generally consume it as they feed on pollutants. At low temperatures the solubility of oxygen is increased; during summer, saturation levels can be as low as 4 ppm. Dissolved oxygen (D.O.) is essential for the support of fish and other aquatic life and aids in the natural decomposition of organic matter. Waste treatment plants that employ aerobic digestion must maintain a level of at least 2 ppm dissolved oxygen.

At elevated temperatures, oxygen is highly corrosive to metals, causing pitting in ferrous systems such as high-pressure boilers and deep well oil recovery equipment. To prevent costly corrosion damage, the liquids in contact with the metal surfaces must be treated, usually by a combination of physical and chemical means. Deaeration can reduce the dissolved oxygen concentration of boiler feedwater from several ppm to a few ppb. Chemical reducing agents such as hydrazine, DEHA or sodium sulfite, may be used instead of or in conjunction with deaeration.

The Indigo Carmine Method

References: ASTM D 888-87, Dissolved Oxygen in Water, Test Method A. Gilbert, T. W., Behymer, T. D., Castañeda, H. B., "Determination of Dissolved Oxygen in Natural and Wastewaters," American Laboratory, March 1982, pp. 119-134.

Test kits for environmental and drinking water applications (ppm range) employ the indigo carmine method. The reduced form of indigo carmine reacts with D.O. to form a blue product. The indigo carmine methodology is not subject to interferences from temperature, salinity or dissolved gases such as sulfide, which plague users of D.O. meters. Results are expressed as ppm (mg/L) O₂.

The Rhodazine D™ Method

References: Developed by CHEMetrics, Inc. ASTM Power Plant Manual, 1st. ed. p. 169 (1984). ASTM D 5543-15, Low Level Dissolved Oxygen in Water. Department of the Navy, Final Report of NAVSECPHILADIV Project A - 1598, Evaluation of CHEMetrics Feedwater Dissolved Oxygen Test Kit (1975).

Test kits for boiler waters and applications requiring trace levels of D.O. (ppb range) employ the Rhodazine D methodology. Developed by CHEMetrics, Inc. and approved by ASTM as the reference method for ppb D.O. determination, the Rhodazine D compound in reduced form reacts with dissolved oxygen to form a bright pink reaction product. The method is not subject to salinity or dissolved gas interferences. Oxidizing agents, including benzoquinone, can cause high results. Reducing agents such as hydrazine and sulfite do not interfere. Results are expressed as ppm (mg/L) or ppb (ug/L) O₂.

Low-range dissolved oxygen test kits include a special sampling tube for use with boiler feedwater. This device allows the user to break the tip of the ampoule in a flowing sample stream in order to preclude error from contamination by atmospheric oxygen.



Visual Kits

Part No.	Range	MDL	Method	Qty	List
V150-391	0-20 ppb	2 ppb	Rhodazine D	1/kit	\$216.73
V150-395	0-40 ppb	2.5 ppb	Rhodazine D	1/kit	\$83.77
V150-397	0-100 ppb	5 ppb	Rhodazine D	1/kit	\$83.77
V150-394	5-180 ppb	5 ppb	Rhodazine D	1/kit	\$83.77
V150-389	0-1 ppm	0.025 ppm	Rhodazine D	1/kit	\$76.81
V150-392	1-12 ppm	1 ppm	Indigo Carmine	1/kit	\$76.18

Instrumental Kits

Part No.	Range	Method	Qty	List
V150-396	0-1.000 ppm	Rhodazine D	1/kit	\$41.41
V150-390	0-2.00 ppm	Indigo Carmine	1/kit	\$45.55
V150-393	0-15.0 ppm	Indigo Carmine	1/kit	\$43.42
V150-246	0-15.0 ppm	Indigo Carmine	1/kit	\$604.55



TONGS

Beaker Tongs

Beaker Tongs

Beaker tongs open to 7" and feature strong zinc-plated steel construction with flat riveted joints and vinyl coated sleeves. Tongs can handle beakers from 50ml to 1500ml capacity. Overall length is 9.75".



Part No.	Description	Qty	List
C221-980	Beaker Tongs	1/ea	\$9.93

Crucible Tongs

Crucible Tongs

Stainless steel tongs with serrated tapered tips, which meet precisely when closed.



Crucible Tongs

Stainless steel tongs with serrated tips, which meet tightly when closed.



Part No.	Size	Qty	List
M900-316	9 1/2" (241mm)	1/ea	\$31.00

Part No.	Size	Qty	List
M900-317	20" (508mm)	1/ea	\$61.66

Crucible Tongs

Tongs have an overall length of 9" and include riveted joints and serrated tips.



Part No.	Description	Qty	List
C221-950	Plated Steel	1/ea	\$4.86
C222-098	Oxidized Steel	1/ea	\$5.30
C221-951	Brass	1/ea	\$9.93
C221-949	Stainless Steel	1/ea	\$11.10

Flask Tongs

Flask Tongs, Stainless Steel

Stainless steel flask tongs are 12" long with riveted joints. Heavy duty construction safely accommodates flasks up to 5000ml. Silicone-coated jaws grip flasks firmly and open to 6".



Part No.	Description	Qty	List
C221-881	Stainless Steel	1/ea	\$29.85

Misc. Tongs

Stainless Steel Tongs

Teflon® coated tips for quick release.

Stainless steel, laboratory type tongs have 7.6cm (3") tips coated with brown Teflon® FEP.

Coating complies with FDA regulations governing direct food contact applications.

Provides an anti-stick surface for easier material handling and release.



Part No.	Length	Qty	List
M441-322	23cm (9")	1/ea	\$68.08

Sterileware Sterile Mini Tongs

Ridged jaws securely hold wet or dry samples.

These small, lightweight tongs are ideal for sampling small quantities of material ranging from food to pharmaceuticals.

Ridged jaws securely hold wet or dry samples.

One piece, sterile tongs are made from polystyrene plastic.

Individually packaged, sterilized by gamma irradiation, lot stamped for accurate lot tracing and shipped with a Certificate of Processing for Sterilization.

Note: Sterilized products are not returnable.



Part No.	Length	Qty	List
M441-321	11cm (4 1/4")	25/pk	\$64.87

TRAYS

Flat Bottom Tray, White HDPE

Flat bottom white plastic trays are easily cleaned.
 Pouring lip.
 Standard photographic paper size.
 *No pouring lip.



Part No.	L x W x D	Qty	List
T420-031	8.875 x 6.875 x 1.5"	1/ea	\$17.38
T420-032	13.25 x 11.25 x 1.875"	1/ea	\$32.12
T420-033	15.625 x 13.375 x 2.5"	1/ea	\$50.62
T420-034	17.25 x 14.375 x 2.25"	1/ea	\$53.21
T420-035	.21 x 17.5 x 3.125"	1/ea	\$84.35
T420-036	.24 x 20 x 3"	1/ea	\$107.71
T420-037*	25.75 x 21.75 x 3.5"	1/ea	\$159.38
T420-038*	27.75 x 23.5 x 3.25"	1/ea	\$176.50
T420-039*	32.25 x 27.5 x 4.125"	1/ea	\$250.06

Processing Trays

Use for staining and developing films.
 These trays can be used for staining and blot analysis in biotechnology labs as well as for photo processing.
 Include cross bars and ribs for rigidity.
 Wide rims and corner spout facilitate pouring.
 Lightweight polystyrene plastic.



Part No.	Inside Dimensions (L x W x H)	Print / Film Size	Qty	List
M440-202	.9 1/2 x 7 3/8 x 1 5/8"	5 x 7"	1/ea	\$94.08
M440-203	13 1/16 x 10 1/16 x 2 3/8"	8 x 10"	1/ea	\$94.08

Kartell High Impact Tray, HIPS

High impact plastic trays are useful for the transport and benchtop storage of vials, bottles, containers, instruments and various laboratory accessories.
 Made of food grade high impact polystyrene. Very durable.



Part No.	L x W x D	Qty	List
M461-280	7.9 x 5.9 x 0.83"	1/ea	\$14.44
M461-281	5.9 x 3.9 x 1.2"	1/ea	\$16.09
M461-282	13.9 x 10 x 1.6"	1/ea	\$29.65
M461-283	13.9 x 10 x 3.2"	1/ea	\$41.90
M461-284	16.1 x 11.8 x 0.8"	1/ea	\$39.59
M461-285	16.1 x 11.8 x 3.2"	1/ea	\$43.05

Instrument Trays with Covers

Polypropylene plastic trays, with inset covers, taper gracefully outward toward the top.
 Smooth, rounded corners allow easy cleaning and sterilization.
 Steam autoclavable at 121°C (250 °F).



Part No.	Inside Dimensions (L x W x H)	Qty	List
M440-204	18.6 x 10.9 x 5.8cm (6 ⁵ / ₈ x 3 ³ / ₄ x 2 ¹ / ₄ "	1/pk	\$41.92

Laboratory Trays, Flat, PP

Flat polypropylene laboratory trays are ideal for containing small spills and to serve as a drip pan. Economical trays measuring 15" x 11.5" are versatile for general laboratory use. Autoclavable.



Part No.	Description	Qty	List
S465-029	Flat, PP, 15 x 11.5"	10/pk	\$83.47

Utility Trays, PP

Polypropylene molded utility tray is steam autoclavable and can be used for sterilizing and drying labware. The 5" depth makes this tray ideal for storage of labware.

Part No.	Description	Qty	List
B724-848	Utility Tray, PP, 15" x 14" x 5"	6/pk	\$165.55



Sterilizing Trays and Covers

Lightweight and corrosion-proof.

These lightweight and corrosion-proof polypropylene plastic trays have rounded corners for easy cleaning and smooth, tapered sides for stacking.

Ideal for sterilizing instruments, bottles containing agar, deionized water, saline and other reagents and for safely cleaning glassware in sinks.

Polypropylene covers are 3.2mm (1/8") thick with a 25.4mm (1") skirt that fits snugly over the rim of the tray.

Trays and lids are steam autoclavable at 121°C (250°F).



Sterilizing Trays

Part No.	Capacity	Outside Dimensions (L x W x H)	Qty	List
M440-211	5 L (1.3 gal)	30.5 x 20.3 x 12.7cm (12 x 8 x 5")	1/ea	\$36.83
M440-213	13 L (3.4 gal)	48.3 x 26.7 x 12.7cm (19 x 10½ x 5")	1/ea	\$60.83
M440-215	18 L (4.75 gal)	53.3 x 39.4 x 12.7cm (21 x 15½ x 5")	1/ea	\$83.42

Sterilizing Tray Covers

Part No.	For Tray	Qty	List
M440-210	M440-211	1/ea	\$189.00
M440-212	M440-213	1/ea	\$206.92
M440-214	M440-215	1/ea	\$262.00

Laboratory Trays, Large, PP

Large polypropylene molded laboratory tray is steam autoclavable and can be used for sterilizing and drying labware. The 5" depth makes this tray ideal for storage of labware.

Part No.	Description	Qty	List
T660-030	20 x 17 x 5"	6/pk	\$347.85



Laboratory Trays, PP

Multi-purpose polypropylene molded trays can be used for sterilizing, drying glassware, porcelainware and other laboratory supplies. These steam autoclavable trays have tapered walls designed for nesting.

Part No.	Description	Qty	List
B724-846	18 x 14 x 3"	10/pk	\$360.67
B724-847	15 x 12 x 3"	10/pk	\$231.43



Instrument Trays with Covers

Polypropylene plastic trays, with inset covers, taper gracefully outward toward the top.

Smooth, rounded corners allow easy cleaning and sterilization.

Steam autoclavable at 121°C (250°F).

Part No.	Inside Dimensions (L x W x H)	Qty	List
M440-205	27.9 x 15.5 x 8.3cm (11 x 6 x 3¼")	1/ea	\$50.93
M440-206	27.9 x 15.2 x 12.7cm (11 x 6 x 5")	1/ea	\$67.58



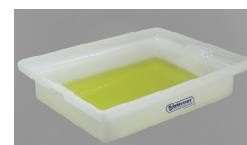
General Purpose Trays

Molded low-density polyethylene trays are rugged, long-lasting and corrosion-resistant.

All trays have heavy walls and wide, top flanges.

Will withstand temperatures up to 77°C (171°F).

Available plain or with M440-691 needle type polyethylene faucet with 12.7mm (½") bore.



Tray without Faucet

Part No.	Inside Dimensions (L x W x H)	Qty	List
M440-216	30.5 x 40.6 x 7.6cm (12 x 16 x 3")	1/ea	\$126.45
M440-217	41 x 51 x 7.6cm (16 x 20 x 3")	1/ea	\$139.20
M440-218	45.7 x 55.9 x 10cm (18 x 22 x 4")	1/ea	\$157.20
M440-219	55 x 65 x 10cm (21½ x 25½ x 4")	1/ea	\$179.55
M440-220	44.5 x 59.7 x 15.2cm (17½ x 23½ x 6")	1/ea	\$213.23

Tray with Faucet

Part No.	Inside Dimensions (L x W x H)	Qty	List
M440-221	30.5 x 40.6 x 7.6cm (12 x 16 x 3")	1/ea	\$198.83
M440-222	41 x 51 x 7.6cm (16 x 20 x 3")	1/ea	\$207.83
M440-223	45.7 x 55.9 x 10.2cm (18 x 22 x 4")	1/ea	\$238.05
M440-224	55 x 65 x 10.2cm (21½ x 25½ x 4")	1/ea	\$261.90
M440-225	44.5 x 59.7 x 15.2cm (17½ x 23½ x 6")	1/ea	\$303.00

Catheter Trays

Trays - seamless design
Stainless Steel
Covers sold separately

Easy to clean
Sterilizable



Part No.	Description (L x W x H)	Qty	List
T800-010	8 3/4 x 3 5/16 x 1 1/2"	12/cs	\$633.96
T800-020	8 15/16 x 5 1/16 x 2"	12/cs	\$696.00
T800-021	8 15/16" x 5 1/16 x 3"	12/cs	\$1197.96

Instrument Trays

Tray - seamless design
Easy to clean
Stainless Steel

Sterilizable
Covers sold separately



Part No.	Description (L x W x H)	Qty	List
T800-006	5 5/16 x 4 x 2 5/8"	12/cs	\$603.48
T800-008	6 1/6 x 6 1/16 x 2 13/16"	12/cs	\$920.04
T800-081	10 x 6 1/2 x 2"	12/cs	\$992.04
T800-023	12 1/2 x 7 4/5 x 2 1/5"	12/cs	\$1256.04
T800-142	16 1/2 x 10 x 2 1/2"	6/cs	\$558.00
T800-144	16 1/2 x 10 x 4"	4/cs	\$633.92



Heavy Weight 20 Gauge

Part No.	Description (L x W x H)	Qty	List
T800-158	6 7/8 x 6 5/16 x 2 1/2"	6/cs	\$328.68
T800-159	6 7/8 x 6 5/16 x 4"	6/cs	\$367.02
T800-160	6 7/8 x 6 5/16 x 6"	6/cs	\$520.02
T800-161	10 9/32 x 6 9/32 x 2 1/2"	6/cs	\$381.18
T800-162	10 9/32 x 6 9/32 x 4"	6/cs	\$565.08
T800-163	10 9/32 x 6 9/32 x 6"	6/cs	\$768.00
T800-164	12 5/8 x 6 37/32 x 2 1/2"	6/cs	\$415.02
T800-165	12 5/8 x 6 27/32 x 4"	6/cs	\$565.08
T800-166	12 5/8 x 6 27/32 x 6"	6/cs	\$855.96
T800-028	20 5/6 x 12 7/9 x 2 1/2"	6/cs	\$828.00
T800-031	20 5/6 x 12 7/9 x 4"	6/cs	\$1108.98
T800-034	20 5/6 x 12 7/9 x 6"	6/cs	\$1491.00
T800-042	12 5/8 x 10 1/3 x 2 1/2"	6/cs	\$526.02
T800-045	12 5/8 x 10 1/3 x 4"	6/cs	\$682.98
T800-048	12 5/8 x 10 1/3 x 6"	6/cs	\$901.02



22 Gauge

Part No.	Description (L x W x H)	Qty	List
T800-029	20 5/6 x 12 7/9 x 2 1/2"	6/cs	\$583.98
T800-037	14 x 12 4/5 x 2 1/2"	6/cs	\$648.00
T800-038	14 x 12 4/5 x 4"	6/cs	\$1012.02
T800-039	14 x 12 4/5 x 6"	3/cs	\$579.51
T800-043	12 5/8 x 10 1/3 x 2 1/2"	6/cs	\$376.98
T800-051	12 5/8 x 6 5/6 x 2 1/2"	6/cs	\$331.98
T800-052	12 5/8 x 6 5/6 x 4"	6/cs	\$484.98
T800-053	12 5/8 x 6 5/6 x 6"	6/cs	\$648.00
T800-054	10 2/7 x 6 2/7 x 2 1/2"	6/cs	\$282.00
T800-055	10 2/7 x 6 2/7 x 4"	6/cs	\$415.02
T800-056	10 2/7 x 6 2/7 x 6"	6/cs	\$607.02
T800-060	6 5/6 x 6 2/7 x 2 1/2"	6/cs	\$235.02
T800-061	6 5/6 x 6 2/7 x 4"	6/cs	\$304.02
T800-062	6 5/6 x 6 2/7 x 6"	6/cs	\$409.02
T800-063	6 7/8 x 4 1/4 x 2"	6/cs	\$232.98
T800-064	6 7/8 x 4 1/4 x 4"	6/cs	\$309.00

Covers for Catheter Trays



Dome

Part No.	For	Qty	List
T800-140	T800-020, -021	12/cs	\$1100.84



Flat Solid

Part No.	For	Qty	List
T800-139	T800-020, -021	12/cs	\$651.00

Covers for Instrument Trays



Part No.	For	Qty	List
T800-123	T800-006	12/cs	\$447.00
T800-130	T800-008	12/cs	\$593.16
T800-079	T800-081	12/cs	\$856.80
T800-086	T800-023	12/cs	\$946.56
T800-099	T800-142, -144	4/cs	\$412.00



22 Gauge

Part No.	For	Qty	List
T800-074	T800-029	6/cs	\$612.00
T800-066	T800-337, -038, -039	6/cs	\$625.02
T800-067	T800-043	6/cs	\$337.02
T800-068	T800-051, -052, -053	6/cs	\$292.02
T800-069	T800-054, -055, -056	6/cs	\$235.98
T800-070	T800-066, -061, -062	6/cs	\$174.00
T800-072	T800-063, -064	6/cs	\$259.98

Be sure to grab some autoclave tape!

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Instrument Trays

Tray - seamless design
Easy to clean

Sterilizable
Stainless Steel



Part No.	Description (L x W x H)	Qty	List
T800-125	8 3/4 x 4 5/8 x 3 1/8"	12/cs	\$1406.04
T800-065	10 3/8 x 5 1/2 x 4"	6/cs	\$721.02
T800-071	9 7/8 x 8 1/8 x 2 1/2"	12/cs	\$996.00

Oblong Instrument/Drying Trays

Tray - seamless design
Easy to clean

Sterilizable
Stainless Steel



with Rolled Bead

Part No.	Description (L x W x H)	Qty	List
T800-083	10 x 6 1/2 x 3/4"	6/cs	\$291.00
T800-093	13 11/16 x 9 13/16 x 3/4"	6/cs	\$532.98
T800-097	15 1/8 x 10 5/8 x 3/4"	6/cs	\$633.00
T800-103	17 x 11 5/8 x 3/4"	6/cs	\$747.00
T800-105	19 3/16 x 12 3/4 x 3/4"	6/cs	\$1533.00
T800-024	21 7/16 x 16 7/16 x 7/8"	6/cs	\$1479.00



with Flat Edge

Part No.	Description (L x W x H)	Qty	List
T800-025	25 x 15 x 5/8"	6/cs	\$1834.98
T800-112	25 x 20 x 5/8"	6/cs	\$1984.00



with Tapered Corners

Part No.	Description (L x W x H)	Qty	List
T800-026	20 5/6 x 12 7/9 x 1 1/4"	6/cs	\$586.99
T800-040	12 5/8 x 10 1/3 x 1 1/4"	6/cs	\$427.02

Sterilization Trays

Seamless design
Stainless Steel

Sterilizable

Not sold as a set - order pans and covers separately



Part No.	Capacity Qt.	Description (L x W x H)	Qty	List
T800-170	3 1/2	20 7/8 x 6 3/8 x 2 1/2"	6/cs	\$910.98
T800-171	5 1/4	20 7/8 x 6 2/5 x 4"	6/cs	\$1174.00
T800-177	9	20 7/8 x 6 4/9 x 6"	6/cs	\$2103.00
T800-057	3 4/5	20 6/7 x 6 1/3 x 2 1/2"	6/cs	\$580.02
T800-058	6	20 6/7 x 6 1/3 x 4"	3/cs	\$339.51
T800-059	8 5/7	20 6/7 x 6 1/3 x 6"	3/cs	\$641.49

Covers for Sterilization Trays

Part No.	For	Qty	List
T800-077	T800-057, -058, -059	6/cs	\$454.98



Perforated Instrument Trays

Tray - seamless design
Easy to clean

Sterilizable
Stainless Steel



Perforated Mayo Trays

Part No.	Description (L x W x H)	Qty	List
T800-084	10 x 6 1/2 x 3/4"	6/cs	\$1947.00
T800-094	13 11/16 x 9 7/8 x 3/4"	6/cs	\$2736.00
T800-098	15 1/8 x 10 5/8 x 3/4"	6/cs	\$1155.00
T800-104	17 x 11 5/8 x 3/4"	6/cs	\$1381.02
T800-106	19 1/5 x 12 3/4 x 3/4"	6/cs	\$1842.00
T800-096	21 2/5 x 16 2/5 x 7/8"	6/cs	\$2251.02



High-Sided Perforated Trays

Part No.	Description (L x W x H)	Qty	List
T800-141	8 7/8 x 5 x 2"	12/cs	\$1368.00
T800-080	10 x 6 1/2 x 2"	12/cs	\$1742.04
T800-087	12 1/4 x 7 4/5 x 2 1/5"	12/cs	\$2264.04
T800-167	12 5/8 x 10 5/16 x 2 1/2"	6/cs	\$934.98
T800-143	16 1/2 x 10 x 2 1/2"	6/cs	\$1111.02
T800-174	7/8 x 12 13/16 x 2 1/2"	6/cs	\$1456.02

* High sides protect fragile instruments during set-up & procedures.



Perforated Instrument Trays

Part No.	Description (L x W x H)	Qty	List
T800-027	20 5/6 x 12 7/9 x 1 1/4"	6/cs	\$681.00
T800-030	20 5/6 x 12 7/9 x 2 1/2"	6/cs	\$940.00
T800-033	20 5/6 x 12 7/9 x 4"	6/cs	\$1170.00
T800-036	20 5/6 x 12 7/9 x 6"	6/cs	\$1794.00
T800-041	12 5/8 x 10 1/3 x 1 1/4"	6/cs	\$567.00
T800-044	12 5/8 x 10 1/3 x 2 1/2"	6/cs	\$601.02
T800-047	12 5/8 x 10 1/3 x 4"	6/cs	\$769.02
T800-050	12 5/8 x 10 1/3 x 6"	6/cs	\$1255.98

TWEEZERS

Precision Tweezers

Stainless Steel

Style: 3
Very Strong Points



Part No.	Size	Qty	List
M900-417	4 3/4" / 120mm	1/ea	\$157.67

Stainless Steel

Style: SS
Very Fine Points, Long and Narrow



Part No.	Size	Qty	List
M900-419	5 1/2" / 140mm	1/ea	\$113.33

Stainless Steel

Style: 4
Extra-Fine Straight Points



Part No.	Size	Qty	List
M900-421	4 3/8" / 110mm	1/ea	\$120.67

Stainless Steel, Anti-Acid, Anti-Magnetic

Style: 00
Thick with Very Strong Points



Part No.	Size	Qty	List
M900-423	4 3/4" / 120mm	1/ea	\$117.67

Stainless Steel, Anti-Acid, Anti-Magnetic

Style: 3C
Very Sharp Points



Part No.	Size	Qty	List
M900-425	4 3/8" / 110mm	1/ea	\$113.67

PP Tweezers

Plastic Tweezers, PP

These polypropylene tweezers are 4" long and feature serrated tips. Non-sterile, autoclavable.

Part No.	Description	Qty	List
C221-873	Plastic Tweezers, PP	12/pk	\$7.10



PMP Tweezers

Azlon Forceps - Tweezers, PMP

These strongly readjusting Azlon tweezers are available with sharp or rounded ends with fine tooth grips.

Part No.	Description	Length	Qty	List
M461-958	White, Sharp Ends	115mm	6/cs	\$38.85
M461-959	White, Sharp Ends	145mm	6/cs	\$52.56
M461-960	Yellow, Round Ends	180mm	6/cs	\$94.00
M461-961	Yellow, Round Ends	250mm	6/cs	\$135.27



Stainless Steel

Style: 5
Super Fine Points



Part No.	Size	Qty	List
M900-418	4 3/8" / 110mm	1/ea	\$152.33

Stainless Steel

Style: 2A
Flat Round Points



Part No.	Size	Qty	List
M900-420	4 3/4" / 120mm	1/ea	\$112.33

Stainless Steel

Style: 7
Extra-Fine Curved Points



Part No.	Size	Qty	List
M900-422	4 1/2" / 115mm	1/ea	\$144.33

Stainless Steel, Anti-Acid, Anti-Magnetic

Style: OC9
Small with Very Sharp Points



Part No.	Size	Qty	List
M900-424	3 1/2" / 90mm	1/ea	\$112.33

Hands-Free Fold-up Magnifier

All glass optics assure perfect focus with zero distortion. Designed specifically for use in quality control, labs, food, electronics, manufacturing. Hands-Free™ Magnifiers allow two-handed examination of objects. Folds up for compact storage.



PTFE Tweezers

Forceps - Fine Tweezers, PTFE

PTFE fine tweezers are chemically inert with excellent chemical resistance and virtually non-contaminating. The PTFE resin conforms to FDA requirements for use with Food & Beverage & USP Class VI requirements.



Part No.	Length	Qty	List
M461-707	100mm	1/ea	\$26.18
M461-708	150mm	1/ea	\$30.18
M461-709	200mm	1/ea	\$42.91

Forceps - Tweezers, PTFE

Totally inert and non-contaminating PTFE Tweezer Forceps. The PTFE resin conforms to FDA requirements for use with Food & Beverage & USP Class VI requirements. Suitable for use up to 260°C.

Square

Part No.	Length	Qty	List
M461-701	100mm	1/ea	\$79.03
M461-702	150mm	1/ea	\$94.79
M461-703	200mm	1/ea	\$107.00



Sharp

Part No.	Length	Qty	List
M461-704	100mm	1/ea	\$79.03
M461-705	150mm	1/ea	\$94.74
M461-706	200mm	1/ea	\$107.00

WIPERS

Delicate Task Wipers

Delicate Task Wipers are a single or 2-ply, light-duty wiper that can handle a variety of delicate tasks. Easily wipes up liquid and dust. Anti-Stat dispensing reduces lint and electrostatic discharge and controls usage. Portability reduces waste. One-at-a-time dispensing. Color: White



Part No.	Description	Qty	List
W110-003	2-Ply 14.7 x 16.6", 140/bx	15bxs/cs	\$234.95
W110-001	11.8 x 11.8", 196/bx	15bxs/cs	\$137.67
W110-002	4.4 x 8.4", 280/bx	60bxs/cs	\$328.21
W110-005	2-Ply 11.8 x 11.8", 196/bx	15bxs/cs	\$184.81
W110-006	11.8 x 11.8", 119/bx	15bxs/cs	\$137.46
W110-007	14.7 x 16.6", 119/bx	15bxs/cs	\$407.22

Wypall L30 Wipers

Pop-up box. Ideal for general purpose, light duty cleanups. Removes liquids from face and hands. One-at-a-time dispensing for users on the go. Color: White



Part No.	Description	Qty	List
W100-001	12.5 x 12", 90/bx	2bxs/cs	\$71.53
W100-002	16.4 x 9.8", 100/bx	8bxs/cs	\$121.22
W220-200	16.4 x 9.8", 120/bx	6bxs/cs	\$194.13
W220-201	8 x 15", 150/bx	6bxs/cs	\$238.00
W220-203	2-Ply 11 x 10.4", 70/bx	24bxs/cs	\$114.20
W220-186	DRC 10 x 9.8", 120/bx	10bxs/cs	\$122.92
W100-005	9.8 x 15.2", 300/bx	2bxs/cs	\$129.58
W220-202	12.4 x 13.3", 950/bx	1/bx/cs	\$77.45

Wypall L40 Wipers

Wypall L40 wipers feature unique DRC (Double Re-Creped) base sheet technology which creates an absorbent spongelike inner layer that absorbs liquids fast, with a soft, touchable outer layer. Easily absorbs liquids, lubricants and oils. Soft enough for use on face and hands.



Part No.	Description	Qty	List
W110-040	12.5 x 12" White, 56/bx	18bxs/cs	\$165.23
W110-044	16.4 x 9.8" White, 100/bx	9bxs/cs	\$132.41
W110-045	10 x 13.2" White, 200/bx	2bxs/cs	\$157.60
W220-185	10.8 x 10" White, 90/bx	9bxs/cs	\$90.45
W220-190	12.5 x 13.4" White, 750/bx	1bx/cs	\$135.90
W220-199	12.5 x 12" White, 56/bx	12bx/cs	\$178.80
W110-043	12.5 x 12" Blue, 56/bx	12bxs/cs	\$107.64
W110-041	16.4 x 9.8" Blue, 100/bx	9bxs/cs	\$267.30
W220-191	11 x 10.4" White, 70/bx	24bxs/cs	\$193.60

Wypall X60 Wipers

Wypall X60 wipers in a BRAG box format. X60 wipers bring the absorbing power of our Hydroknit material technology to a light weight wiper, combining versatile performance and economy for light-duty tasks. Designed to reduce waste, which means you spend less.



Part No.	Description	Qty	List
W112-003	12.5 x 16.8" White, 180/bx	1bx/cs	\$30.68
W112-002	12.5 x 12" White, 76/bx	12bx/cs	\$146.18
W112-000	9.1 x 16.8" White, 126/bx	10bx/cs	\$133.21
W112-021	12.5 x 13.4" Blue, 1100/bx	1bx/cs	\$188.07
W112-024	19.6 x 13.4" Blue, 130/bx	6bx/cs	\$356.00
W112-001	19.6 x 13.4" White, 130/bx	6bx/cs	\$250.71
W112-019	12.5 x 16.8" White, 150/bx	6bx/cs	\$319.20
W112-005	9.8 x 13.4" White, 130/bx	12bx/cs	\$264.22
W112-006	11 x 23" White, 100/bx	9bx/cs	\$366.66
W130-001	9.8 x 13.4" Blue, 130/bx	12bx/cs	\$264.22
W112-020	12.5 x 13.4" White, 1100/bx	1bx/cs	\$193.70

Wypall X70 Wipers

Wypall X70 Wipers in a Quarter fold format. Durable, absorbent wipers that stay strong for better cleaning performance. Reusable, long lasting performance. Cleans oils, grime and solvents. Made with high-tech HYDROKNIT fast absorbing material. Ideal for manufacturing and maintenance and repair.



Part No.	Description	Qty	List
W110-004	12.5 x 12" White, 76/pk	12pks/cs	\$153.23
W110-008	12.5 x 13.4" White, 870/bx	1bx/cs	\$141.38
W110-009	12.5 x 13.4" Blue, 870/bx	1bx/cs	\$130.81
W110-018	12.5 x 16.8" White, 152/bx	1bx/cs	\$37.06
W110-020	9.1 x 16.8" White, 100bx	10bx/cs	\$228.21
W110-010	9.8 x 13.4" White, 275/bx	3bx/cs	\$132.98
W110-017	14.9 x 16.6" White, 300/bx	1bx/cs	\$97.02
W110-015	16.6 x 29.8" White, 300/bx	1bx/cs	\$132.81
W110-019	9.1 x 16.8" Blue, 100/bx	10bx/cs	\$330.67

Wypall X80 Wipers

Absorbs more water and oil than textile rags. Resistant to solvents and other harsh cleansing agents. Contaminant-free wipers provide a fresh, clean cloth every time. A safer alternative to rental shop towels and rags.



Part No.	Description	Qty	List
W110-014	12.5 x 13.4" Red, 475/rl	1/cs	\$84.59
W112-031	12.5 x 13.4" Blue, 475/rl	1/cs	\$106.77
W112-009	9.1 x 16.8" Red, 80/rl	5/cs	\$185.17
W112-030	12.5 x 16.8" Blue, 160/rl	1/cs	\$48.77
W112-028	12.5 x 12" White, 50/rl	4/cs	\$46.52
W110-027	34 x 31.5" White, 475/rl	1/cs	\$183.87
W110-030	9 x 20" White, 190/rl	1/cs	\$86.80
W112-033	9.1 x 16.8" White, 80/rl	5/cs	\$127.95
W112-027	12.5 x 13.4" White, 475/rl	1/cs	\$154.33
W112-032	12.5 x 16.8" White, 160/rl	1/cs	\$35.43
W112-029	12.5 x 12" Red, 50/rl	4/cs	\$42.73

Kimtech Pure* W4 Dry Wipers

Kimtech Pure W4 Critical Task Dry Wipers have a 100% polypropylene construction and are thermally bonded with no glues or binders. The wipers are double bagged with a case liner and are specifically designed for ISO Class 4 and higher cleanrooms. These wipers are ideal for use in the pharmaceutical, high tech, biotechnology and medical device industries. Additionally, the polypropylene used in the manufacture of Kimtech Pure W4 Dry Wipers meets the requirements set forth by the FDA for Olefin polymers (21 CFR 177.1520) used for food packaging/contact. Please note, the FDA does not regulate wipers as food packaging.

Kimtech Pure W4 Wipers are made with a 100% polypropylene base sheet, which is low lint for environments where "lint free" standards are important.

Acid-, base- and solvent-resistant with straight, clean knife-cut edges.

These disposable wipers are recommended for ISO Class 4 and higher clean rooms.



Part No.	Description	Qty	List
W111-001	12 x 12" White, Polypropylene, 100/pk	5pks/cs	\$152.84
W111-002	9 x 9" White, Polypropylene, 100/pk	5pks/cs	\$117.37



Kimtech Science* Precision Wipes Tissue Wipers

Designed for general cleaning tasks and feature the anti-static ("anti-stat") dispensing system. These versatile, value wipers useful for polishing glass and wiping surfaces. The Pop-Up Box is coated to keep wipes clean and dry and is designed for easy, one-at-a-time dispensing. Kimtech Science Precision Wipers are economical choice for your general cleaning tasks, including instrumentation, surface, parts and lens cleaning.



Part No.	Description	Qty	List
W220-395	11.8 x 11.8" White 1-ply Tissue, 196/bx	15bxs/cs	\$144.56
W220-197	14.7 x 16.6" White 2-ply Tissue, 140/bx	15bxs/cs	\$142.74
W220-198	14.7 x 16.6" White Airlaid/Polyethylene, 90/bx	15bxs/cs	\$210.00
W220-196	4.4 x 8.4" White 1-ply Tissue, 280/bx	60bxs/cs	\$217.14

Wiper Accessories

PUSH-UP Box™ PS

Plastic Push-Up Box is accessible and portable.
Use wherever ergonomically desirable.
Protects tissues from spills in the workplace.
Single-piece construction.
Injection molded, high impact polystyrene.



Part No.	Dimensions (L x W x H)	Qty	List
M460-313	5.1 x 5.0 x 3.875"	1/ea	\$46.41

Lab Tissue Wipe Dispenser

Acrylic clear wipe holder adds extra weight for one-hand dispensing of tissue wipes. Wall or bench mount with either two strips of double sided tape or mounting screws (not included).



Part No.	Holds Kimwipe Box Size	L x W x H	Qty	List
D300-045	Small	5 x 1 1/8 x 3 3/8"	1/ea	\$32.15
D300-046	Large	15 3/8 x 5 1/4 x 4"	1/ea	\$23.01

Wypall* Jumbo Roll Dispensers

Wall Mounted Dispenser for Kimtech and Wypall Wipes. The dispenser is designed to work with compatible Wypall Towels and Kimtech Wipes, in the jumbo roll format. Because of a built-in perforator, you can tear off just what you need to get the job done, reducing waste. Changing the roll is quick and easy, so that you can get on with the job at hand.



Part No.	Color	Style	Qty	List
W220-399	Black	Wall Mounted	1/ea	\$46.26
W220-400	Black	Free Standing	1/ea	\$82.13

Kimberly Clark Professional* THE GRABBER® Dispenser

The Grabber Dispenser for Wypall Wipes allows you to mount it to walls, trucks, carts and workbenches. The dispenser, which measures 9.4" x 2.8" x 5.9", has a versatile, space-saving design that's simple to mount, so you always know where your wipers are. The dispenser is designed to work with compatible Wypall Towels in the Pop-Up Box format, for one-at-a-time dispensing.



Part No.	Color	Style	Qty	List
W220-227	White	Pop-Up* Box	1/ea	\$264.40

Kimberly-Clark Professional* Access® Wall Mount Wiper Dispenser

With the Access Wall Mounted Dispenser for Wypall Wipes, you can mount it just about anywhere and hang your Brag Box or Pop Up Box of wipers so that they're always at your fingertips. No more carrying a box around or not having what you need, when you need it. The dispenser is designed to work with compatible Wypall Towels, in Pop Up Box and Brag Box formats. Changing the roll is quick and easy, so that you can get on with the job at hand.



Part No.	Description	Qty	List
W220-387	10.8 x 0.65 x 8.0"	1/ea	\$94.01

Certified Cheesecloth Wipes

Meets all cleanliness specifications of USP (United States Pharmacopoeia) and Federal Specification CCC-G-101c.

Pure wipes absorb 6 times their weight of solvents and aqueous solutions.

Certified to be 100% pure cotton of reagent-grade quality and purity.

Can be used as a filtering material due to their inertness to harsh solvent.

Reagent-grade quality

They meet all lab requirements for cleanliness, softness, absorbency and strength. They never scratch surfaces or fall apart like paper towels.

Clean any optical grade surface

Use them to wipe cuvetts and microscopes, clean cameras and dry delicate glassware, syringes, pipettes and pH electrodes. Individually dispensed wipes eliminate time-consuming cutting of bolts of cloth and the dust, dirt and waste associated with handling difficult-to-store rolls.



Part No.	Description	Qty	List
T501-059	Regular	60/pk	\$57.35
T501-061	Mini	200/pk	\$45.63
T501-060	Large Bolt	1/ea	\$126.55

Vernier Digital and Manual Calipers available!

Digital

Designed for laboratory use, measures in inches and millimeters.

Zero button instantly sets unit to zero when jaws are at any position—permits, without calculations, setting a Floating Zero™ or reference point to read “greater than or less than results with a minus sign displayed”.

No lubrication is ever required on the ultra-smooth slide bar, runs on the supplied battery for 10,000 hours.



Manual

Economical stainless steel Vernier calipers with 125mm/5 inch capacity.

Features inside and outside jaws, full length depth gauge, friction ruler and sliding lock for gauging.

Graduated in millimeters and 1/16”.



Plasticware

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BEAKERS

Disposable Polystyrene Beakers

Withstand indirect heat to 200°F; the 5, 10, 20 & 50mL sizes are excellent for use with atomic absorption, flame photometers and blood cell counters. Excellent chemical resistance to dilute or weak acids, aqueous solutions, alcohols and bases. Four-way pour spouts. Polystyrene (plastic).



Part No.	Description (Top x Bottom x Height)	Qty/pk	List/pk	Qty/cs	List/cs
D160-001	5mL, 1-5/16 x 3/4 x 3/4"	n/a	n/a	1000/cs	\$162.27
D160-002	10mL, 1-7/16 x 7/8 x 1"	n/a	n/a	1000/cs	\$153.09
D160-003	20mL, 1-3/4 x 1-1/8" x 1-1/4"	100/pk	\$48.18	500/cs	\$160.44
D160-004	50mL, 2-3/8 x 1-3/8" x 2"	n/a	n/a	500/cs	\$221.64
D161-001	150mL, 3-5/16 x 2-1/8" x 2-1/2"	n/a	n/a	100/cs	\$132.34
D161-002	250mL, 3-5/8 x 2-9/16" x 3"	n/a	n/a	100/cs	\$145.57

Disposable Polypropylene Beakers

These sturdy polypropylene beakers feature three pouring lips for drip-less dispensing. Beakers are graduated in both ounces and milliliters. Available in packs of 100 or as an assortment of 30 beakers featuring 5 of each size.



Part No.	Description	Qty	List
B725-046	50mL, 57 x 67mm	100/cs	\$104.74
B725-047	100mL, 71 x 84mm	100/cs	\$38.26
B725-048	250mL, 88 x 101mm	100/cs	\$59.42
B725-049	400mL, 111 x 115mm	100/cs	\$192.29
B725-050	800mL, 137 x 137mm	100/cs	\$321.65
B725-051	1000mL, 143 x 141mm	100/cs	\$148.32
B725-052*	Tri-Corner Beaker Set	30/cs	\$49.49

*(5 each of 50mL, 100mL, 250mL, 400mL, 800mL & 1000mL)

Polypropylene Beaker

Our polypropylene beakers are manufactured with high-quality and safety in mind; that is why they are chosen again and again as a standard for labs all across the country. They are resistant to most commonly used laboratory reagents, including a variety of strong acids, bases and organic solvents. The beakers are transparent for clear content visibility and graduated for easily estimating volumes. For convenience, they are designed with molded-in pouring spouts and a rolled lip, for a dripless working environment. They are also autoclavable to 121°C (248°F).



Part No.	Capacity	Grad. Range	Grad. Range	Qty/pk	List/pk	Qty/cs	List/cs
C200-108	15mL	5 to 15mL	1/4 to 1/2oz	n/a	n/a	1000/cs	\$135.20
C200-111	30mL	5 to 30mL	1/4 to 1oz	100/pk	\$16.44	1000/cs	\$164.40
C200-113	50mL	5 to 50mL	1/2 to 1-1/2oz	n/a	n/a	1000/cs	\$180.62
C200-107	100mL	5 to 100mL	1 to 3oz	n/a	n/a	1000/cs	\$243.34
C200-109	150mL	5 to 150mL	1 to 5oz	n/a	n/a	1000/cs	\$422.17
C200-110	250mL	10 to 250mL	2 to 8oz	n/a	n/a	500/cs	\$254.16
C200-112	400mL	25 to 400mL	2 to 12oz	n/a	n/a	500/cs	\$351.50
C200-114	600mL	25 to 600mL	2 to 20oz	25/pk	\$42.27	n/a	n/a

Beakers, Griffin Style, Polypropylene (PP)

Beakers molded in polypropylene have excellent clarity and chemical resistance. They are autoclavable and feature raised graduations on the outer surface. Griffin style beakers nest without sticking together.



Part No.	Capacity	Grad. Interval	O.D. x Height	Qty	List
B725-001	50mL	5mL	55 x 55mm	12/pk	\$21.87
B725-002	100mL	5mL	60 x 62mm	12/pk	\$17.03
B725-003	250mL	10mL	85 x 100mm	6/pk	\$14.51
B725-004	500mL	10mL	100 x 120mm	4/pk	\$14.68
B725-005	600mL	10mL	110 x 125mm	4/pk	\$24.45
B725-006	1000mL	25mL	124 x 150mm	3/pk	\$14.43
B725-007	2000mL	250mL	155 x 185mm	3/pk	\$22.85

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www.foxscientific.com

Griffin Beakers

These Griffin beakers are available in a variety of plastics to fit your application. ETFE (ethylene tetrafluoroethylene) provides high chemical resistance and very high thermal stability (-100 to +150°C). PMP (polymethylpentene) provides glass-like clarity, while PP (polypropylene) is highly transparent and well-suited for general purpose use. Meets the requirements of ISO 7056 (except T710-342-T710-358). To preserve markings on products with colored overprinting (cat. no. T710-419-T710-461, T710-418-T710-460, T710-342-T710-358), cleaning at no higher than 60°C is recommended. For autoclaving, the design with raised graduations (cat. no. T710-422-T710-462, T710-423-T710-463) is recommended.



Griffin Beakers, PP

Part No.	Volume (mL)	Grad. (mL)	Height (mm)	Diameter (mm)	Qty	List
T710-422	25	5	50	38	12/pk	\$33.00
T710-426	50	10	60	47	12/pk	\$34.50
T710-430	100	10	70	55	12/pk	\$40.50
T710-434	150*	20	80	66	12/pk	\$55.50
T710-438	250	25	95	77	6/pk	\$28.50
T710-442	400*	50	111.5	87	6/pk	\$39.00
T710-466	500	50	117.5	94	6/pk	\$42.00
T710-446	600*	50	126.5	100	6/pk	\$43.50
T710-450	1000	100	147	120	6/pk	\$60.00
T710-454	2000	200	187	149	6/pk	\$121.50
T710-458	3000	250	212	170	4/pk	\$147.00
T710-462	5000	500	247	203	4/pk	\$187.50

- * Variant in addition to ISO 7056
- Molded graduations for durability
- Food-safe according to EC Directive 10/2011

Griffin Beakers, PP

Part No.	Volume (mL)	Grad. (mL)	Height (mm)	Diameter (mm)	Qty	List
T710-419**	10*	2	36	30	12/pk	\$33.60
T710-421**	25	5	50	38	12/pk	\$33.60
T710-425**	50	10	60	47	12/pk	\$35.10
T710-429	100	10	70	55	12/pk	\$42.00
T710-433	150*	20	80	66	12/pk	\$57.00
T710-437	250	25	95	77	6/pk	\$30.60
T710-441	400*	50	111.5	87	6/pk	\$40.50
T710-465	500	50	117.5	94	6/pk	\$44.40
T710-445	600*	50	126.5	100	6/pk	\$45.00
T710-449	1000	100	147	120	6/pk	\$61.50
T710-453	2000	200	187	149	6/pk	\$123.00
T710-457	3000	250	212	170	4/pk	\$148.00
T710-461	5000	500	247	203	4/pk	\$189.00

- * Variant in addition to ISO 7056
- Molded graduations with blue screened overprint for legibility (** Blue printed scale, not molded graduations)
- Food-safe according to EC Directive No. 10/2011



Griffin Beakers, PMP

Part No.	Volume (mL)	Grad. (mL)	Height (mm)	Diameter (mm)	Qty	List
T710-423	25	5	50	38	12/pk	\$45.00
T710-427	50	10	60	47	12/pk	\$57.00
T710-431	100	10	70	55	12/pk	\$70.50
T710-435	150*	20	80	66	12/pk	\$93.00
T710-439	250	25	95	77	6/pk	\$48.00
T710-443	400*	50	111.5	87	6/pk	\$70.50
T710-467	500	50	117.5	94	6/pk	\$75.00
T710-447	600*	50	126.5	100	6/pk	\$81.00
T710-451	1000	100	147	120	6/pk	\$118.50
T710-455	2000	200	187	149	6/pk	\$205.50
T710-459	3000	250	212	170	4/pk	\$223.50
T710-463	5000	500	247	203	4/pk	\$300.00

- * Variant in addition to ISO 7056
- Molded graduations for durability



Glass Beakers can be found on pages 146-147.

Griffin Beakers, PMP

Part No.	Volume (mL)	Grad. (mL)	Height (mm)	Diameter (mm)	Qty	List
T710-418	10*	2	36	30	12/pk	\$46.50
T710-420	25	5	50	38	12/pk	\$46.50
T710-424	50	10	60	47	12/pk	\$58.50
T710-432	100	10	70	55	12/pk	\$94.50
T710-436	250	25	95	77	6/pk	\$49.50
T710-440	400*	50	111.5	87	6/pk	\$72.00
T710-464	500	50	117.5	94	6/pk	\$76.50
T710-444	600*	50	126.5	100	6/pk	\$82.50
T710-448	1000	100	147	120	6/pk	\$120.00
T710-452	2000	200	187	149	6/pk	\$207.00
T710-456	3000	250	212	170	4/pk	\$225.00
T710-460	5000	500	247	203	4/pk	\$301.50

* Variant in addition to ISO 7056

• Molded graduations with red screened overprint for legibility



Griffin Beakers, ETFE

Part No.	Volume (mL)	Grad. (mL)	Height (mm)	Diameter (mm)	Qty	List
T710-342	25	5	50	32	1/pk	\$24.00
T710-345	50	10	59	39	1/pk	\$27.00
T710-348	100	20	72	50	1/pk	\$39.00
T710-352	250	50	96	67	1/pk	\$73.50
T710-354	400	50	109	77	1/pk	\$88.50
T710-356	500	100	122	88	1/pk	\$100.50
T710-355	600	100	125	91	1/pk	\$123.00
T710-358	1000	100	143	105	1/pk	\$192.00

• Beakers are translucent with black graduations for legibility



Beakers, Printed Graduations, PP

Polypropylene beakers with pouring spouts are ideal for general laboratory use. Tapered design is convenient for stacking and holding. All sizes have easy to read silk-screened graduations. Autoclavable.

Part No.	Capacity (mL)	Height (mm)	Qty	List
B724-429	50	59	12/pk	\$38.40
B724-428	100	73	12/pk	\$45.23
B724-427	250	94	12/pk	\$42.75
B724-426	500	128	6/pk	\$72.60
B724-425	1000	150	4/pk	\$54.97
B724-424	2000	190	4/pk	\$86.67
B724-423	5000	263	2/pk	\$96.77
B724-422	10000	330	1/pk	\$99.73



Beakers with Handle, Printed Graduations, PMP

Polymethylpentene beakers with pouring spouts are ideal for general laboratory use. Includes rectangular handle for easy carrying and pouring. All sizes have easy to read silk-screened graduations. Autoclavable.

Part No.	Capacity (mL)	Height (mm)	Qty	List
B724-406	100	73	6/pk	\$66.93
B724-405	250	94	6/pk	\$77.53
B724-404	500	128	6/pk	\$127.83
B724-403	1000	150	4/pk	\$56.13
B724-402	2000	190	4/pk	\$189.83
B724-401	5000	248	2/pk	\$119.83
B724-400	10000	330	1/pk	\$166.10



Beakers, Heatable PTFE

- Totally chemical resistant and inert PTFE beaker
- Use to 270°C without distortion
- For use w/ Hydrofluoric Acid and caustic chemicals
- Even heat transfer

PTFE heatable beakers features the unique combination of a pure PTFE body with a specially formulated stabilized PTFE Carbon base as a single molding allowing for heating to 270°C without distortion.

Part No.	Capacity (mL)	Height (mm)	Diameter (mm)	Qty	List
M461-698	100	74	56	1/pk	\$87.24
M461-699	250	94	75	1/pk	\$112.03
M461-700	400	112	85	1/pk	\$174.32



Beakers, PTFE

- Optional watch glass available
- Not graduated

Isostatically molded from virgin PTFE and machine finished to give a smooth surface for ease of cleaning and to eliminate contamination. Beakers with pouring spouts are virtually immune to chemical attack, only attacked by some fluorine containing compounds at very high temperature and molten alkalis metals.

Working temperature range is from cryogenic to 260°C.



Part No.	Capacity (mL)	Height (mm)	Diameter (mm)	Qty	List
M460-178	1	18	13	1/pk	\$20.44
M460-179	5	26	20	1/pk	\$26.65
M460-167	10	33	24	1/pk	\$28.71
M460-168	25	47	32	1/pk	\$33.88
M460-169	50	60	43	1/pk	\$37.29
M460-170	100	68	54	1/pk	\$47.41
M460-171	250	97	66	1/pk	\$97.09
M460-173	400	106	80	1/pk	\$125.71
M460-172	500	125	80	1/pk	\$139.41
M460-174	600	125	90	1/pk	\$183.77
M460-175	1000	155	100	1/pk	\$316.41
M460-176	2000	210	120	1/pk	\$494.97
M460-177	5000	280	170	1/pk	\$1795.91

Chemware® PTFE Griffin Beakers

Can be heated to 550°F (288°C) and used in a microwave.

Chemically resistant to acids and bases.

Ultra-pure.

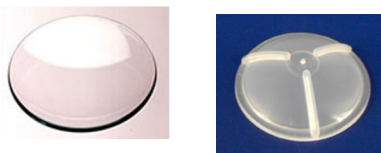
Chemware® PTFE beakers are non-contaminating and completely inert to highly corrosive reagents. They are non-wettable, unbreakable, lightweight and heat resistant. Easy to clean, these beakers have a broad spout for easy pouring. They can be heated on a hot plate up to 550°F (288°C), when proper care is exercised. The specially molded bottom allows rapid heat transfer.

Neck I.D. (Plug Measure)



Part No.	Volume	Capacity to Brim	Neck I.D.	Qty	List
P440-372	1mL	2mL	10.5mm	1/ea	\$76.46
P440-373	3mL	4mL	14.8mm	1/ea	\$73.43
P440-374	5mL	7mL	17.8mm	1/ea	\$66.80
P440-427	10mL	12mL	21.8mm	1/ea	\$72.97
P440-375	30mL	40mL	32.9mm	1/ea	\$78.03
P440-376	50mL	63mL	38.9mm	1/ea	\$87.20
P440-377	100mL	129mL	48.3mm	1/ea	\$79.31
P440-378	250mL	320mL	65.7mm	1/ea	\$128.51
P440-379	400mL	490mL	76.0mm	1/ea	\$178.71
P440-380	600mL	750mL	85.0mm	1/ea	\$266.91
P440-381	1000mL	1250mL	104.7mm	1/ea	\$388.67

Stop by page 219 to see the selection of watch glasses we have to offer.



Our stir bar options can be found on pages 416 to 419.



BOTTLES

HDPE

Pre-Cleaned Wide Mouth Bottles

Color: Natural

Finish: 400

Part No.	Capacity	Neck I.D.	Qty	List
B600-010	1L (32oz)	63 Neck I.D.	12/cs	\$24.52
B600-500	500mL (16oz)	53 Neck I.D.	24/cs	\$32.92
B319-012	125mL (4oz)	38 Neck I.D.	48/cs	\$76.17
B319-013	500mL (16oz)	53 Neck I.D.	24/cs	\$55.53
B319-014	5 gal	89 Neck I.D.	6/cs	\$30.93



Non-Pre-Cleaned Wide Mouth Bottles

Leakproof, translucent, FDA approved resin, rigid and polypropylene closure.

Shrink wrapped packs. Caps attached.

Description: Capacity x Neck I.D. x Cap Size

Part No.	Description	Qty/pk	List/pk	Qty/cs	List/cs
B601-004	125mL x 33mm x 38mm	12/pk	\$22.47	72/cs	\$117.35
B601-008	250mL x 35mm x 45mm	12/pk	\$35.11	72/cs	\$210.68
B601-016	500mL x 45mm x 55mm	12/pk	\$46.48	48/cs	\$185.91
B601-032	1000mL x 54mm x 65mm	6/pk	\$33.25	24/cs	\$133.00



Wide Mouth Bottles

Bulk packaged bottles with caps attached.

Part No.	Capacity	Neck I.D./Finish	Qty	List
B601-01L	32oz (1L)	63/400	72/cs	\$127.69
B601-500	16oz (500mL)	53/400	180/cs	\$252.01
B601-250	8oz (250mL)	48/400	250/cs	\$200.67
B601-125	4oz (125mL)	8/400	48/cs	\$22.69



Wide Mouth Bottles

These high density polyethylene wide mouth bottles are translucent, pliable and have excellent strength.

Includes polypropylene caps.

Part No.	Capacity	Neck I.D.	CapSize	Qty	List
B724-718	4oz (125mL)	28mm	38mm	12/pk	\$21.65
B724-719	8oz (250mL)	33mm	43mm	12/pk	\$39.79
B724-720	16oz (500mL)	43mm	53mm	12/pk	\$35.80
B724-721	32oz (1000mL)	53mm	63mm	6/pk	\$37.50



Bulk Options - HDPE

These high density polyethylene wide mouth bottles are translucent, pliable and have excellent strength.

Includes polypropylene caps.

Part No.	Capacity	Neck I.D.	Qty	List
B725-536	4oz (125mL)	28mm	500/cs	\$515.46
B725-537	8oz (250mL)	33mm	250/cs	\$431.70
B725-538	16oz (500mL)	43mm	125/cs	\$360.83
B725-539	32oz (1000mL)	53mm	50/cs	\$164.95



Bulk Options - Azlon - HDPE - Wide Mouth

Bulk cases contain a single bag of plastic laboratory bottles with a separate bag of closures.

Part No.	Capacity	Qty	List
M461-461	4oz. (125mL)	350/cs	\$570.44
M461-462	8oz. (250mL)	180/cs	\$526.71
M461-463	16oz. (500mL)	100/cs	\$387.32
M461-464	32oz. (1000mL)	55/cs	\$304.82



Polypropylene

PP-Wide Mouth Bottles

These autoclavable wide mouth polypropylene bottles are rigid, translucent and have excellent contact clarity. Includes polypropylene caps.



Part No.	Capacity / Neck I.D. / CapSize	Qty	List
B724-707	4oz (125mL), 28mm, 38mm	12/pk	\$22.68
B724-708	8oz (250mL), 33mm, 43mm	12/pk	\$39.04
B724-709	16oz (500mL), 43mm, 53mm	12/pk	\$47.53
B724-710	32oz (1000mL), 53mm, 63mm	6/pk	\$39.62

Bulk Options - PP

These autoclavable wide mouth polypropylene bottles are rigid, translucent and have excellent contact clarity. Includes polypropylene caps.



Part No.	Capacity	Neck I.D.	CapSize	Qty	List
B725-540	4oz (125mL)	28mm	38mm	500/cs	\$502.58
B725-541	8oz (250mL)	33mm	43mm	250/cs	\$431.70
B725-542	16oz (500mL)	43mm	53mm	125/cs	\$315.72
B725-543	32oz (1000mL)	53mm	63mm	50/cs	\$226.80

Narrow Mouth

Reagent Bottles, Narrow Mouth, PP

These autoclavable narrow mouth polypropylene bottles are rigid, translucent and have excellent contact clarity. Include polypropylene caps.



Part No.	Capacity	Height / Neck I.D. / Cap Size	Qty	List
B724-699	0.5oz	58mm / 14mm / 20mm	12/pk	\$7.30
B724-700	1oz	62mm / 14mm / 20mm	12/pk	\$9.97
B724-701	2oz	85mm / 14mm / 20mm	12/pk	\$20.78
B724-702	4oz	101mm / 18mm / 24mm	12/pk	\$26.00
B724-703	8oz	133mm / 18mm / 24mm	12/pk	\$39.00
B724-704	16oz	170mm / 21mm / 28mm	12/pk	\$46.80
B724-705	32oz	216mm / 21mm / 28mm	6/pk	\$39.00

Azlon Narrow Mouth PP Bottles

Lab Packs are shrink wrapped packs of plastic laboratory bottles with caps attached.

Part No.	Capacity	Height	Bottle O.D.	Neck I.D.	Cap Size	Qty	List
M461-518	30mL	66mm	32mm	16mm	22mm	72/cs	\$141.45
M461-519	60mL	78mm	40mm	16mm	22mm	72/cs	\$141.45
M461-520	125mL	103mm	50mm	22mm	28mm	72/cs	\$180.89
M461-521	250mL	143mm	60mm	21mm	28mm	72/cs	\$257.18
M461-522	500mL	165mm	75mm	21mm	28mm	48/cs	\$271.92
M461-523	1000mL	202mm	90mm	21mm	28mm	24/cs	\$212.68
M461-524	2000mL	235mm	120mm	33mm	45mm	6/cs	\$128.24



Large Bottles, LDPE

Large narrow mouth bottle made of low density polyethylene. Excellent chemical resistance. Heavy wall thickness for durability, yet a fraction of the weight of glass. Maximum temperature of LDPE is 80°C.



Part No.	Capacity	Height	Bottle O.D.	Cap Size	Qty	List
M462-072	1/2gal	274mm	114mm	28mm	6/cs	\$271.38
M462-070	1gal	355mm	152mm	38mm	6/cs	\$475.29
M462-071	2gal	406mm	190mm	53mm	6/cs	\$744.18

Amber bottle options are available for select styles.

Precisionware Narrow-Mouth Bottles – Autoclavable Polypropylene

FDA compliant material.

Ideal for pharmaceutical or similar type packaging, these translucent bottles are Boston round in style and molded from FDA compliant material.

Matched polypropylene caps have a ring-seal design for a perfect, leakproof fit; ribbed for torque-closure and easy opening.

Deep square threads withstand vibration; help prevent closure back-off during shipping.

Smooth, rounded inner bottle surfaces for easy cleaning and thorough emptying.

Underside of bottle lists volume, material and includes an indexing notch.

Recycling codes listed on 500 and 1000mL bottles.

Autoclavable to 121°C (250°F); do not autoclave with caps in place.



Part No.	Capacity	Closure	Qty/pk	List/pk	Qty/cs	List/cs
B415-054	500mL (16oz)	28mm	12/pk	\$106.80	48/cs	\$427.20
B415-055	1000mL (32oz)	38mm	6/pk	\$97.35	24/cs	\$389.40

Wash Bottles

GHS Labeled Right-to-Know, Safety-Vented Wash Bottles

Satisfy requirements of GHS and OSHA HazCom 2012 for workplace labeled containers.

Safety-vented wash bottles provide compliance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and OSHA's HazCom 2012 requirements – as pertains to "Workplace Labels".

Pre-printed with the chemical name and formula, GHS pictogram and signal word*, National Fire Protection Association (NFPA) Section 704 Four-color Diamond, health hazards, Chemical Abstract System (CAS) number and suggested protective clothing and equipment.

Unique valve prevents pressure build-up eliminating potentially dangerous chemical drips; allows dispensing of wash bottle in an upright or inverted position**.

Wide mouth 53mm (2") bottle for easy refilling.

Translucent LDPE bottles; Sodium Hypochlorite is white LDPE for light-protection between 230 and 450nm; Toluene is red LDPE bottle. Color-coded polypropylene closures aid in quick and easy identification.

500mL - 4/bag, 1000mL - 2/bag; assortment is 4 per bag, includes one each: Acetone, Isopropanol, Bleach and Ethanol.

* Bottles with labels that do not indicate a hazardous chemical do not have/require GHS pictogram or signal word.

**Methyl Ethyl Ketone and Toluene do not include vented valve.



Part No.	Label	Capacity	Cap Color	Qty	List
B415-354	Acetone	500mL	Red	4/pk	\$75.23
B415-355	Dichloromethane	500mL	Yellow	4/pk	\$76.60
B415-356	Deionized Water*	500mL	Blue	4/pk	\$77.55
B415-357	Distilled Water*	500mL	Blue	4/pk	\$75.60
B415-358	Ethyl Acetate	500mL	Green	4/pk	\$75.60
B415-359	Isopropanol	500mL	Yellow	4/pk	\$75.60
B415-360	Machine Oil	500mL	Natural	4/pk	\$75.60
B415-361	Methanol	500mL	Green	4/pk	\$75.60
B415-362	Methyl Ethyl Ketone**	500mL	Green	4/pk	\$75.60
B415-363	Isotonic Saline*	500mL	Natural	4/pk	\$75.60
B415-364	Sodium Hypochlorite (Bleach)	500mL	Yellow	4/pk	\$75.60
B415-365	Toluene**	500mL	Red	4/pk	\$75.60
B415-366	Water*	500mL	Blue	4/pk	\$75.60
B415-367	Ethanol	500mL	Natural	4/pk	\$75.60
B415-368	Assortment (4pc)	500mL	--	4/pk	\$77.55
B415-369	Acetone	1000mL	Red	2/pk	\$56.40
B415-370	Distilled Water*	1000mL	Blue	2/pk	\$56.40
B415-371	Isopropanol	1000mL	Yellow	2/pk	\$56.40
B415-372	Methanol	1000mL	Green	2/pk	\$56.40
B415-373	Sodium Hypochlorite (Bleach)	1000mL	Yellow	2/pk	\$56.40
B415-374	Ethanol	1000mL	Natural	2/pk	\$56.40
B415-375	Assortment (4pc)	1000mL	--	4/pk	\$112.73

Bottle Carriers can be found on page 403.



Narrow-Mouth Wash Bottles

Natural or colored caps.

Low-density polyethylene wash bottles offer different colors of polypropylene closures for quick, at-a-glance identification of contents.

Choose from natural, red, yellow, blue and green.

*Bulk quantities available by special order.



Part No.	Cap Color	Capacity	Closure	Qty/pk	List/pk	Qty/cs	List/cs
B415-103	Red	125mL	28mm	6/pk	\$46.88	48/cs	\$375.04
B415-104	Red	250mL	28mm	6/pk	\$47.03	36/cs	\$282.18
B415-105	Red	500mL	28mm	6/pk	\$50.55	24/cs	\$202.20
B415-106	Red	1000mL	38mm	4/pk	\$45.38	12/cs	\$136.14
B415-107	Yellow	250mL	28mm	6/pk	\$47.85	36/cs	\$287.10
B415-108	Yellow	500mL	28mm	6/pk	\$52.50	24/cs	\$210.00
B415-109	Yellow	1000mL	38mm	4/pk	\$47.85	12/cs	\$143.55
B415-110	Blue	250mL	28mm	6/pk	\$47.85	36/cs	\$287.10
B415-111	Blue	500mL	28mm	6/pk	\$50.55	24/cs	\$202.20
B415-112	Blue	1000mL	38mm	4/pk	\$47.03	12/cs	\$141.09
B415-113	Green	250mL	28mm	6/pk	\$47.85	36/cs	\$287.10
B415-114	Green	500mL	28mm	6/pk	\$52.50	24/cs	\$210.00
B415-115	Green	1000mL	38mm	4/pk	\$47.03	12/cs	\$141.09
B415-116	*Natural	125mL	28mm	12/pk	\$76.20	72/cs	\$457.20
B415-117	*Natural	250mL	28mm	12/pk	\$78.60	72/cs	\$471.60
B415-118	*Natural	500mL	28mm	12/pk	\$89.10	36/cs	\$267.30
B415-119	*Natural	1000mL	38mm	12/pk	\$109.50	24/cs	\$219.00

Needle Spray Narrow-Mouth Wash Bottles

For an extra fine needle point spray, use these easy-to-squeeze wash bottles.

Low density polyethylene.

Can be labeled using Tech Pens available in black, red, white, yellow, blue, green, & orange.



Part No.	Capacity	Closure	Qty/pk	List/pk	Qty/cs	List/cs
B415-126	250mL	28mm	12/pk	\$126.90	72/cs	\$761.40
B415-127	500mL	28mm	12/pk	\$143.18	36/cs	\$429.54

Azlon Wide Mouth Wash Bottle, LDPE

These high quality wide mouth plastic wash bottles are supplied in flexible natural polyethylene and are fitted with a range of color coded leak proof, wide neck polypropylene spout closures.

The wide neck offers easy spill-free filling and the acute angled, precision molded dispensing spout, ensures a consistent, downward pointing jet. The wash bottles are supplied in shrink-wrapped packs of five. All feature S.P.I recycling codes on their base. Maximum temperature of LDPE is 80°C.



250mL Capacity 60mL Diameter 145mm Height			
Part No.	Cap Color	Qty	List
M461-923	White	5/cs	\$43.38
M461-924	Red	5/cs	\$41.62
M461-925	Yellow	5/cs	\$40.38
M461-926	Green	5/cs	\$43.38
M461-927	Blue	5/cs	\$40.38

500mL Capacity 75mL Diameter 165mm Height			
Part No.	Cap Color	Qty	List
M461-928	White	5/cs	\$48.18
M461-929	Red	5/cs	\$48.18
M461-930	Yellow	5/cs	\$47.97
M461-931	Green	5/cs	\$47.53
M461-932	Blue	5/cs	\$46.12

1000mL Capacity 90mL Diameter 209mm Height			
Part No.	Cap Color	Qty	List
M461-933	White	5/cs	\$53.97
M461-934	Red	5/cs	\$50.24
M461-935	Yellow	5/cs	\$50.24
M461-936	Green	5/cs	\$50.24
M461-937	Blue	5/cs	\$50.24

Azlon Autoclavable Wash Bottle, PP

Azlon Autoclavable Wash Bottle at 121°C. Polypropylene 500mL bottle fitted with one-piece PP closure (34mm neck ID). Closure features precision jet-tip aperture for fine control. Dimensions 163mm height x 75mm diameter.

Part No.	Capacity	Qty	List
M460-322	500mL	5/cs	\$67.41



Unitary Bottles

Unitary, LDPE

These bottles are made of translucent and low density polyethylene. The distinguishing feature of these bottles is the built-in delivery tube which makes it a one-piece wash bottle. Include raised graduations on the outer surface to reflect an approximate volume of solution filled or dispensed.



Part No.	Capacity / Grad. Interval	Qty	List
B724-734	125mL / 25mL	12/pk	\$37.23
B724-732	250mL / 50mL	12/pk	\$46.50
B724-733	500mL / 100mL	12/pk	\$77.95

Azlon Integral Style, LDPE

These wash bottles have an integrally molded tube with removable jet tip and a separate plain Polypropylene cap. The shape is a squared oval for easy grip and improved stability. Can be supplied with the tube end sealed for transportation when filled. Maximum temperature of LDPE is 80°C.



Part No.	Capacity / L x W x H	Qty	List
M461-897	250mL / 2.77 x 1.82 x 6.25"	5/cs	\$45.35
M461-898	500mL / 3.31 x 2.31 x 7.5"	5/cs	\$51.62

Dispensing/Dropping

Azlon Round Eye Dropper

Azlon 15mL round dropper bottle with a fine bore neck insert and specially shaped polyethylene cap. Available in natural polyethylene. Supplied capped in shrink-wrapped packs. Maximum temperature for LDPE is 80°C. Dimensions: 24mm diameter x 74mm height



Part No.	Description	Qty	List
M461-993	Natural 15mL	10/cs	\$31.50

Dispensing/Drop Bottles

Easy-squeeze bottle for critical drop control.

The sealer cap on these low density polyethylene dispenser bottles snaps on easily and continues to hold a tight seal even after repeated use. Tip opening is 0.76mm (0.030").



Part No.	Capacity	Closure	Qty/pk	List/pk	Qty/cs	List/cs
B415-147	15mL	15mm	12/pk	\$27.15	72/cs	\$162.90
B415-142	30mL	18mm	12/pk	\$26.70	72/cs	\$160.20
B415-143	60mL	18mm	12/pk	\$31.05	72/cs	\$186.30
B415-144	125mL	24mm	12/pk	\$51.83	72/cs	\$310.98
B415-145	185mL	24mm	12/pk	\$51.83	72/cs	\$310.98
B415-146	250mL	24mm	12/pk	\$41.60	72/cs	\$249.60
B415-148	500mL	28mm	12/pk	\$76.28	36/cs	\$228.84

Indicator Bottles

Ideal for Staining Slides. Excellent for use with indicator solutions or dyes.

Double duty low density polyethylene bottles can be used as squirt bottles with the supplied tube and as dropper bottles when the tube is removed.



Part No.	Capacity	Height	Qty/pk	List/pk	Qty/cs	List/cs
B415-190	15mL (1/2oz)	7.4cm (2.9")	12/pk	\$39.93	72/cs	\$215.58
B415-191	30mL (1oz)	7.6cm (3.0")	12/pk	\$38.40	72/cs	\$230.40
B415-192	60mL (2oz)	9.4cm (3.7")	12/pk	\$45.53	72/cs	\$273.18

Economy Dropper Bottle, LDPE

Dropper bottles supplied in low density polyethylene bottles feature 2 styles of caps depending on the dropping bottle capacity. 15mL dropping bottles has a 2 piece cap. *15mL supplied with 2 piece cap as shown in photo.



*Height w/cap

Part No.	Capacity	Height*	Bottle Diameter	Cap Size	Qty/pk	List/pk	Qty/cs	List/cs
M462-054*	15mL	77mm	24mm	15mm	n/a	n/a	48/cs	\$83.97
M462-055	30mL	81mm	30mm	18mm	n/a	n/a	48/cs	\$107.08
M462-056	60mL	91mm	36mm	18mm	n/a	n/a	36/cs	\$96.01
M462-057	125mL	115mm	47mm	24mm	6/pk	\$17.32	36/cs	\$103.91
M462-058	180mL	132mm	55mm	24mm	n/a	n/a	36/cs	\$119.07
M462-059	250mL	144mm	60mm	24mm	n/a	n/a	24/cs	\$96.69



Square Bottles

Polystyrene Square Edge, Wide-Mouth Bottles

Space efficient shape.

These high-density polyethylene bottles with polypropylene screw closures store more samples or chemicals in limited shelf space than round bottles.

Square edge shape makes them ideal shipping containers.



Part No.	Capacity	Closure	Qty/pk	List/pk	Qty/cs	List/cs
B415-067	125mL (4oz)	38mm	12/pk	\$53.40	72/cs	\$320.40
B415-068	250mL (8oz)	43mm	12/pk	\$72.98	48/cs	\$291.92
B415-069	500mL (16oz)	43mm	12/pk	\$94.05	24/cs	\$188.10
B415-070	1000mL (32oz)	53mm	6/pk	\$78.60	12/cs	\$157.20

Square Bottles

Maximize limited shelf space.

Leakproof, chemical resistant bottles have heavy-threaded necks and tamper-proof, tear-lock closures.

Molded of high-density polyethylene.

Deep-shelled, blue polypropylene closures.

Ideal for storing or shipping samples.



Part No.	Capacity	Closure	Width	Height	Qty	List
B415-078	500mL	53mm	75mm	158mm	6/pk	\$88.95
B415-079	1000mL	53mm	85mm	207mm	6/pk	\$112.13

Graduated Media Bottles, PC

Polycarbonate media bottle with polypropylene closure.

Octagonal square shape for easy pouring and space storage.

Graduation markings are optically clear molded-in.

Transparent and autoclavable.

Leak-proof.

Unequaled in design or performance, the octagonal square shape provides an "Easy-Grip" for pouring. Transparent and autoclavable. Use with aqueous solutions, storage of media-short term or for space saving (square) storage.

The cap is made with virgin, high-temperature polypropylene (PP) and is liner-free and comes with a leak-proof guaranty. The neck ring insures security of shrink-wrapped seals and has a smooth interior so there is no fluid entrapment and no back-flow contamination. The seal ring is molded inside the cap and fits tightly against the bottle neck; insuring a leak-proof system.



Part No.	Capacity / Height / Diameter / Neck Size	Qty	List
M462-110	125mL / 107mm / 54mm / 38-430	48/cs	\$478.29
M462-111	250mL / 140mm / 61mm / 38-430	36/cs	\$375.47
M462-112	500mL / 172mm / 73mm / 38-430	24/cs	\$380.65
M462-113	1000mL / 216mm / 97mm / 38-430	24/cs	\$480.29
M462-114	2000mL / 273mm / 114mm / 53B	1/cs	\$40.00

Azlon Graduated Rectangular Bottles HDPE

Ideal for powders and granules.

Economical on shelf space.

Food grade.

Includes mouth insert plug for added security.

Maximum temperature 110°C.

Lightweight graduated rectangular plastic bottles with plug seal blue screw caps. Closure and insert are made of HDPE. Feature molded in graduations for approximate volume measurements. Supplied capped, in shrink-wrapped packs.



Part No.	Capacity	H x W x L	Neck I.D.	Qty	List
M461-840	500mL	120 x 75 x 75mm	58	10/cs	\$80.68
M461-841	1000mL	180 x 75 x 94mm	58	5/cs	\$46.03
M461-842	2000mL	235 x 92 x 108mm	58	5/cs	\$64.15

Storage Bottles with PP Screw Caps

Storage bottles are made from LDPE or HDPE. Bottles made of LDPE are flexible, while those made of HDPE are more rigid and offer greater chemical resistance. Neither material is autoclavable. Bottles in either material are available with wide mouths for easy filling and as square bottles for more efficient storage.



Bottles, LDPE, with Screw Caps, PP

Part No.	Volume	Thread GL	Height	Diameter	Qty	List
T710-567	50mL	18	73mm	37mm	24/pk	\$93.00
F521-500	100mL	18	95mm	43mm	24/pk	\$99.00
T710-570	250mL	25	135mm	58mm	12/pk	\$69.00
T710-572	500mL	25	180mm	74mm	12/pk	\$99.00

- Screw caps help protect against outside contamination and leakage.
- Food-safe according to EC Directive No. 10/2011

Wide Mouth Bottles, LDPE, with Screw Caps, PP

Part No.	Volume	Thread GL	Height	Diameter	Qty	List
T710-563	250mL	45	146mm	58mm	12/pk	\$79.50
T710-564	500mL	45	166mm	76mm	12/pk	\$109.50
T710-565	1000mL	63	226mm	91mm	12/pk	\$156.00

- Screw caps help protect against outside contamination and leakage.
- Food-safe according to EC Directive No. 10/2011

Square Bottles, HDPE, with Screw Caps, PP

Part No.	Volume	Thread GL	Height	Size	Qty	List
F521-100	100mL	25	76mm	43 x 43mm	24/pk	\$111.00
T710-557	250mL	28	80mm	80 x 80mm	24/pk	\$148.50
T710-558	500mL	32	106mm	90 x 90mm	12/pk	\$99.00
T710-559	1000mL	32	187mm	80 x 80mm	12/pk	\$135.00

- Screw caps help protect against outside contamination and leakage.

Wide Mouth Square Bottles, HDPE, with Screw Caps, PP

Part No.	Volume	Thread GL	Height	Size	Qty	List
T710-560	100mL	32	78mm	46 x 46mm	24/pk	\$147.00
T710-561	250mL	50	83mm	80 x 80mm	24/pk	\$166.50
T710-562	500mL	65	120mm	90 x 90mm	12/pk	\$124.50
F521-250	1000mL	65	168mm	90 x 90mm	12/pk	\$156.00

- Screw caps help protect against outside contamination and leakage.

Kartell Graduated Rectangular Bottles HDPE

Graduated plastic square bottles are ideal for long term storage of samples.

Approximate graduations allow reproducible filling without the use of cylinders/beakers.

Easy grip caps can be wired down for security.

Suitable for foodstuff according to EC Regulation 10/2011.

Convenient square Polyethylene bottle design saves space. The integrity of the seal is insured by the additional internal plug. Hole in Polypropylene closure for attachment of tag. Maximum temperature for High Density Polyethylene is 110°C.



Part No.	Capacity	Grad.	H x W x D	Neck I.D.	Qty/pk	List/pk	Qty/cs	List/cs
M461-342	25mL	.5mL	52 x 34 x 32mm	18mm	n/a	n/a	100/cs	\$239.32
M461-343	50mL	10mL	70 x 38 x 38mm	24mm	n/a	n/a	100/cs	\$265.79
M461-344	100mL	20mL	90 x 48 x 42mm	34.5mm	n/a	n/a	100/cs	\$374.91
M461-345	250mL	50mL	110 x 60 x 57mm	34.5mm	n/a	n/a	100/cs	\$430.79
M461-346	500mL	100mL	138 x 80 x 70mm	45mm	6/pk	\$36.18	36/cs	\$219.06
M461-347	1000mL	100mL	176 x 103 x 80mm	58mm	n/a	n/a	24/cs	\$228.71
M461-348	2000mL	100mL	210 x 134 x 100mm	58mm	n/a	n/a	12/cs	\$209.59

Mark up your work and lab with these pens!



CYLINDERS

Graduated Cylinders, PMP, Class A

These glass-clear tall-form cylinders are calibrated "to contain" and are Class A per DIN 12681 and ISO 6706. Hexagonal base provides stability. Supplied certificate includes mean test value and lot (lot and year are imprinted on product). Thermal stress up to 121°C (autoclaving) does not cause permanent exceeding of the tolerance limits. However, to preserve markings (cat. no. C210-693 – C210-730), cleaning at no higher than 60°C is recommended. For autoclaving, the design with raised graduations (cat. no. C210-695 – C210-735) is recommended.



Class A Graduated Cylinders, PMP, Certified

Part No.	Volume	Tolerance	Grad.	Height	Diameter	Qty	List
C210-695	10mL	0.10 ±mL	0.20mL	145mm	15mm	2/pk	\$34.50
C210-700	25mL	0.25 ±mL	0.50mL	170mm	22mm	2/pk	\$36.00
C210-705	50mL	0.50 ±mL	1.00mL	200mm	27mm	2/pk	\$37.50
C210-710	100mL	0.50 ±mL	1.00mL	250mm	33mm	2/pk	\$51.00
C210-715	250mL	1.00 ±mL	2.00mL	315mm	44mm	2/pk	\$79.50
C210-720	500mL	2.50 ±mL	5.00mL	360mm	58mm	1/ea	\$64.50
C210-726	1000mL	5.00 ±mL	10.00mL	440mm	69mm	1/ea	\$93.00
C210-735	2000mL	10.00 ±mL	20.00mL	535mm	97mm	1/ea	\$150.00

• Molded graduations with red screened overprint for legibility

Class A Graduated Cylinders, PMP, Certified

Part No.	Volume	Tolerance	Grad.	Height	Diameter	Qty	List
C210-693	10mL	0.10 ±mL	0.20mL	145mm	15mm	2/pk	\$27.00
C210-698	25mL	0.25 ±mL	0.50mL	170mm	21mm	2/pk	\$27.00
C210-703	50mL	0.50 ±mL	1.00mL	200mm	27mm	2/pk	\$28.50
C210-708	100mL	0.50 ±mL	1.00mL	250mm	33mm	2/pk	\$39.00
C210-713	250mL	1.00 ±mL	2.00mL	315mm	44mm	2/pk	\$60.00
C210-718	500mL	2.50 ±mL	5.00mL	360mm	58mm	1/ea	\$61.50
C210-724	1000mL	5.00 ±mL	10.00mL	440mm	69mm	1/ea	\$90.00
C210-730	2000mL	10.00 ±mL	20.00mL	482mm	97mm	1/ea	\$147.00

• Molded graduations with ring marks at major increments

Measuring Cylinders, Class A, PMP

Polymethylpentene cylinders have glass-like clarity and feature easy-to-read molded in graduations. Hexagonally-shaped bases for extra stability. Large spouts for smooth flow of liquids during pouring. Autoclavable to 121°C. Meets accuracy requirements of Class A under DIN 12681. Supplied with conformity test certificate that indicates batch number and year of production.



Part No	Capacity	Grad. Interval	Tolerance	Height	Qty	List
B724-437	10mL	0.2mL	0.1 ±mL	138mm	1/ea	\$42.84
B724-436	25mL	0.5mL	0.25 ±mL	169mm	1/ea	\$24.79
B724-435	50mL	1mL	0.5 ±mL	198mm	1/ea	\$56.55
B724-434	100mL	1mL	0.5 ±mL	258mm	1/ea	\$46.34
B724-433	250mL	2mL	1 ±mL	314mm	1/ea	\$108.35
B724-432	500mL	5mL	2.5 ±mL	345mm	1/ea	\$75.04
B724-431	1000mL	10mL	5 ±mL	411mm	1/ea	\$107.16
B724-430	2000mL	20mL	10 ±mL	482mm	1/ea	\$250.72

Measuring Cylinders, Class B, PMP

Polymethylpentene cylinders have glass-like clarity and feature easy-to-read molded in graduations. Hexagonally-shaped bases for extra stability. Large spouts for smooth flow of liquids during pouring. Autoclavable to 121°C. Meets accuracy requirements of Class B under DIN 1261.

Part No.	Capacity	Grad. Interval	Tolerance	Height	Qty	List
B724-445	10mL	0.2mL	0.2 ±mL	138mm	12/pk	\$74.07
B724-444	25mL	0.5mL	0.5 ±mL	169mm	12/pk	\$70.68
B724-443	50mL	1mL	1 ±mL	198mm	12/pk	\$103.80
B724-442	100mL	1mL	1 ±mL	258mm	6/pk	\$73.65
B724-441	250mL	2mL	2 ±mL	314mm	6/pk	\$121.40
B724-440	500mL	5mL	5 ±mL	345mm	3/pk	\$86.56
B724-439	1000mL	10mL	10 ±mL	411mm	3/pk	\$100.18
B724-438	2000mL	20mL	20 ±mL	482mm	3/pk	\$272.37



Graduated Cylinders, Class B

These tall-form cylinders are calibrated "to contain" Class B per DIN 12681 and ISO 6706 and have a hexagonal base design for greater stability. Available in highly transparent PP (polypropylene) or crystal clear SAN (styrene acrylonitrile copolymer), with molded graduations with or without overprint screening. PP cylinders can tolerate temperatures of up to 80°C, while the SAN cylinders can tolerate temperatures of up to 60°C, without causing permanent exceeding of tolerance limits.



Class B Graduated Cylinders, PP

Part No.	Volume	Tolerance	Graduation	Height	Diameter	Qty	List
C210-694	10mL	0.20 ±mL	0.20mL	145mm	15mm	12/pk	\$82.50
C210-699	25mL	0.50 ±mL	0.50mL	170mm	22mm	12/pk	\$97.50
C210-704	50mL	1.00 ±mL	1.00mL	200mm	27mm	12/pk	\$118.50
C210-709	100mL	1.00 ±mL	1.00mL	250mm	33mm	12/pk	\$144.00
C210-714	250mL	2.00 ±mL	2.00mL	315mm	44mm	6/pk	\$108.00
C210-719	500mL	5.00 ±mL	5.00mL	360mm	58mm	6/pk	\$148.50
C210-725	1000mL	10.00 ±mL	10.00mL	440mm	69mm	6/pk	\$204.00
C210-731	2000mL	20.00 ±mL	20.00mL	482mm	97mm	3/pk	\$183.00

- Molded graduations with blue screened overprint for legibility
- Temperatures of 60°C must not be exceeded (including cleaning) to maintain accuracy and preserve overprint

Class B Graduated Cylinders, PP

Part No.	Volume	Tolerance	Graduation	Height	Diameter	Qty	List
C210-697	10mL	0.20 ±mL	0.20mL	145mm	15mm	12/pk	\$64.50
C210-702	25mL	0.50 ±mL	0.50mL	170mm	22mm	12/pk	\$81.00
C210-707	50mL	1.00 ±mL	1.00mL	200mm	27mm	12/pk	\$90.00
C210-712	100mL	1.00 ±mL	1.00mL	250mm	33mm	12/pk	\$112.50
C210-717	250mL	2.00 ±mL	2.00mL	315mm	44mm	6/pk	\$76.50
C210-722	500mL	5.00 ±mL	5.00mL	360mm	58mm	6/pk	\$102.00
C210-728	1000mL	10.00 ±mL	10.00mL	440mm	69mm	6/pk	\$142.50
C210-733	2000mL	20.00 ±mL	20.00mL	482mm	97mm	3/pk	\$135.00

- Molded graduations with ring marks at major increments
- Temperatures of 60°C must not be exceeded (including cleaning) to maintain accuracy and preserve overprint
- Food-safe according to EC Directive No. 10/2011

Class B Graduated Cylinders, SAN

Part No.	Volume	Tolerance	Graduation	Height	Diameter	Qty	List
C210-696	10mL	0.20 ±mL	0.20mL	140mm	16mm	12/pk	\$82.50
C210-701	25mL	0.50 ±mL	0.50mL	169mm	21mm	12/pk	\$96.00
C210-706	50mL	1.00 ±mL	1.00mL	199mm	28mm	12/pk	\$118.50
C210-711	100mL	1.00 ±mL	1.00mL	260mm	34mm	12/pk	\$157.50
C210-716	250mL	2.00 ±mL	2.00mL	315mm	47mm	6/pk	\$117.00
C210-721	500mL	5.00 ±mL	5.00mL	350mm	61mm	6/pk	\$159.00
C210-727	1000mL	10.00 ±mL	10.00mL	415mm	76mm	6/pk	\$205.50
C210-732	2000mL	20.00 ±mL	20.00mL	482mm	97mm	3/pk	\$192.00

- Molded graduations with ring marks at major increments
- Food-safe according to EC Directive No. 10/2011

Single Scale Graduated Cylinders

Roll-proof and easy-to-read.

These graduated cylinders have a single metric scale with raised numerals for easy reading.

Flared top rims and large spouts facilitate pouring.

Octagonal shaped bases prevent tipping and rolling.

"Non-wetting" polypropylene plastic surface eliminates concave meniscus; makes reading easier and more accurate

Chemically resistant and autoclavable at 121°C (250°F).



Part No.	Capacity	Graduation	Height	Qty/pk	List/pk	Qty/cs	List/cs
M440-658	10ml	Every 0.1ml	5.7"	1/pk	\$6.90	24/cs	\$165.60
M440-659	25ml	0.5ml	7.5"	1/pk	\$8.33	24/cs	\$199.92
M440-660	50ml	1.0ml	7.9"	1/pk	\$10.73	12/cs	\$128.76
M440-661	100ml	1.0ml	10.0"	1/pk	\$13.28	12/cs	\$159.36
M440-662	250ml	2.0ml	12.8"	1/pk	\$14.85	12/cs	\$178.20
M440-663	500ml	5.0ml	13.8"	1/pk	\$20.25	6/cs	\$121.50
M440-664	1000ml	10.0ml	17.7"	1/pk	\$28.35	6/cs	\$170.10
M440-665	2000ml	20.0ml	20.0"	1/pk	\$51.38	4/cs	\$205.52



Plastic Cylinders

These plastic graduated cylinders feature permanently molded graduations that will not fade after repeated autoclaving. Meets stringent international quality criteria according to ISO 6706 standards. Tolerances according to DIN 12 680 TT, Class B. Maximum temperature: PP 121°C, PMP 135°C

Shatter resistant - reduce breakage & incidence of injury.

Chemically resistant to most acids, bases and many common solvents.

Autoclavable.

Choose glass-like clarity of polymethylpentene (PMP) or choose economical translucent polypropylene (PP).

Choose a durable molded graduation cylinder or a printed plastic cylinder with brilliant easy to read blue printed graduations.



PMP Plastic Cylinders

Part No.	Capacity	Sub Divisions	Diameter	Height	Tolerance	Qty	List
C420-028	10mL	0.2mL	14mm	140mm	0.2 ±mL	20/cs	\$163.24
C420-029	25mL	0.5mL	20mm	170mm	0.5 ±mL	20/cs	\$190.74
C420-030	50mL	1mL	26mm	200mm	1 ±mL	20/cs	\$242.18
C420-031	100mL	1mL	31mm	250mm	1 ±mL	10/cs	\$145.00
C420-032	250mL	2mL	42mm	315mm	2 ±mL	8/cs	\$144.77
C420-033	500mL	5mL	55mm	360mm	5 ±mL	6/cs	\$143.86
C420-034	1000mL	10mL	66mm	440mm	10 ±mL	4/cs	\$119.35
C420-035	2000mL	20mL	83mm	535mm	20 ±mL	4/cs	\$293.68

PP Plastic Cylinders

Part No.	Capacity	Sub Divisions	D x H	Tolerance	Qty/pk	List/pk	Qty/cs	List/cs
C420-036	10mL	0.2mL	14mm x 140mm	0.2 ±mL	n/a	n/a	20/cs	\$153.79
C420-037	25mL	0.5mL	20mm x 170mm	0.5 ±mL	n/a	n/a	20/cs	\$169.68
C420-038	50mL	1mL	26mm x 200mm	1 ±mL	1/ea	\$11.80	20/cs	\$235.91
C420-039	100mL	1mL	31mm x 250mm	1 ±mL	1/ea	\$13.00	10/cs	\$129.97
C420-040	250mL	2mL	42mm x 315mm	2 ±mL	1/ea	\$14.98	10/cs	\$149.79
C420-041	500mL	5mL	55mm x 360mm	5 ±mL	1/ea	\$21.70	8/cs	\$173.62
C420-042	1000mL	10mL	66mm x 440mm	10 ±mL	1/ea	\$26.51	6/cs	\$159.06
C420-043	2000mL	20mL	83mm x 535mm	20 ±mL	1/ea	\$52.55	4/cs	\$210.18

PP Plastic Cylinder Sets

Part No.	Description (Capacities Include)	Qty	List
C420-044	10, 25, 50, 100, 250, 500, 1000	1/set	\$111.65
M461-383	10, 50, 100, 250, 500, 1000	1/set	\$102.41
M461-384	10, 50, 100, 500, 1000	1/set	\$86.18

Conical Measuring Cylinders, PP

Our polypropylene conical measuring cylinders are ideal for measuring small quantities of reagents. They are autoclavable and have excellent contact clarity. The hexagonal base provides excellent stability to the cylinder and the tapered spout enables easy pouring of reagents. Features easy-to-read raised graduations.



Part No.	Capacity	Graduation	Qty	List
T660-025	12mL	1mL	12/pk	\$13.23
T660-026	25mL	1mL	12/pk	\$13.97
T660-027	50mL	2mL	12/pk	\$18.33
T660-028	125mL	5mL	12/pk	\$21.93
T660-029	200mL	5mL	12/pk	\$33.97

Kartell Conical Graduate PP

Plastic conical cylinder withstands temperatures to 121°C.

Highly resistant to chemicals.

Autoclavable.

Suitable for foodstuff.

These polypropylene conical graduates have a wide base for stability and are designed for safe grip.



Part No.	Capacity	Increments	Top Diam.	Height	Tolerance ±	Qty	List
M460-024	100mL	2mL	65mm	120mm	0.2mL	6/pk	\$76.53
M460-025	250mL	5mL	88mm	160mm	0.5mL	6/pk	\$120.91
M460-026	500mL	10mL	103mm	180mm	1mL	6/pk	\$123.00
M460-027	1000mL	20mL	148mm	270mm	1mL	6/pk	\$255.74

Holdfast Graduated Cylinders

Grip handle for steady pouring.

This one-piece cylinder with handle provides a secure, solid grip for safer pouring.

Easy-to-read double scale with raised graduations.

Hexagonal base prevents tipping and rolling.

Will not create a meniscus.

Handle opening: 8.9 x 2.9cm (3 x 1 1/8")

Chemically resistant polypropylene; autoclavable at 121°C (250°F).



Part No.	Capacity	Graduation	Height	Qty	List
M440-666	1000mL	Every 10mL	17.3"	1/pk	\$42.98
M440-667	2000mL	Every 20mL	19.3"	1/pk	\$83.70

CONTAINERS

Precision Specimen Container - Sterile

Capacity: 4oz (118mL)

Graduated: Yes



Part No.	Description	Qty	List
C200-045	3 x 2 1/2" Plastic Screw Cap	100/cs	\$69.47
C200-042	3 1/2 x 2" Screw Cap / Positive Seal Indicator	200/cs	\$286.39

General Purpose Specimen Container

Meets the NCCLS Specimen Handling Guidelines for primary containers. Full turn screw thread provides excellent leak-resistant seal. Translucent polypropylene container is tough, durable, non-breakable and inert. Tolerates strong acids, bases and most organic solvents.

Capacity: 4oz (118mL)

Top: White Cap

Sterile: No

Graduated: Yes



Part No.	Description	Qty	List
C200-046	Specimen Container	500/cs	\$152.12

General Purpose Specimen Container

Precision molded polypropylene body with a HDPE screw cap. Quarter-turn screw cap locks down fast and tight. Graduations are in ounces and milliliters for quick reference. Frosted areas are for a convenient writing surface.

Part No.	Capacity	Sterile	Qty	List
C200-201	4.5oz	No	100/cs	\$133.55
C200-202	4.5oz	No	500/cs	\$239.05



Mettler Titration Cup

Disposable titration beaker.

Fits M-T Auto Titrators.

Part No.	Description	Qty	List
C800-100	100mL	1000/cs	\$684.53



Container with Handle, HDPE

Lightweight HDPE wide mouth jar, molded of high density polyethylene with 100mm PP white cap. Light in weight but strong and durable. Supplied in 1 gallon size only.

Part No.	Capacity	Height	Diameter	Qty	List
M460-350	1 gal	10.5"	6.5"	12/cs	\$169.15



Specimen Containers with Snap Cap

Container and snap cap are made of polypropylene.

These disposable containers made of polypropylene, are ideal for collection and storage of fluids, powders, solids, pathology specimens and hazardous samples. Lids are tight fitting.



Part No.	Capacity	Opening	Height	Qty	List
C330-068	300mL (10oz.)	111mm	45mm	100/cs	\$95.65
C330-069	500mL (17oz.)	111mm	75mm	100/cs	\$97.38
C330-070	1000mL (34oz.)	111mm	140mm	100/cs	\$145.63

Tamper Evident Specimen Containers

Container and closure are made of polypropylene.

These disposable containers are ideal for collection, transport and storage of fluids, powders, solids, pathology specimens and hazardous samples. Tight-fitting lids prevent leaks and odors. They incorporate a tamperproof lid which is opened by first removing tab on side of lid, then by lifting the cover. They resist temperatures up to 121°C. The two larger sizes are supplied with a plastic handle for easy carrying.



Part No.	Capacity	Opening	Height	Qty	List
C330-073	300mL (10oz.)	111mm	45mm	100/cs	\$104.90
C330-074	500mL (17oz.)	111mm	75mm	100/cs	\$113.73
C330-071	1000mL (34oz.)	111mm	140mm	100/cs	\$162.70
C330-072	2600mL (87oz.)	200mm	124mm	25/cs	\$103.03
C330-075	5700mL (140oz.)	225mm	195mm	10/cs	\$88.95

Disposable All-Purpose Specimen Containers

Bulk - Non-Sterile

Durable, translucent, unbreakable; polypropylene (plastic) container resist acids, bases, most organic solvents and common laboratory reagents.

Dual graduations in oz. and mL, internally molded, easy to read, graduated in increments of 20mL and 1oz.

Flexible packaging, "bulk", sleeved, non-sterile for general and industrial use. Tight-fitting lids are easy to attach and remove.



Part No.	Description	Dimensions	Qty	List
B157-003	Lids, Bulk	2-3/4" o.d. x 5/16"h	500/cs	\$62.02
B157-001	4-1/2oz., Bulk, w/o Lid	2-5/8" o.d. x 2" bot. o.d. x 2-9/16"h	500/cs	\$88.73
B157-002	.8oz., Bulk, w/o Lid	2-5/8" o.d. x 2" bot. o.d. x 4-1/16"h	500/cs	\$128.87

Translucent Multipurpose Containers - Polyethylene

These high-quality non-graduated lab containers are designed for the collection, transport and storage of specimens and samples. Tight fitting lids prevent leaks and odors. Ideal for storing biologically hazardous samples for terminal autoclaving before disposal. Molded from either high-density polyethylene, these containers are inert to most chemicals including formaldehyde, weak acids and all bases. The stackable containers are resistant to freezing and boiling and are easy to write on with either pen or pencil for positive identification.



Part No.	Capacity	Dimensions	Dimensions (mm)	Qty	List
C200-100	1.9L (8oz.)	3.30 x 3.50"	83.82 x 88.90	100/cs	\$70.04
C200-101	16oz	3.75 x 4.25"	95.25 x 107.95	100/cs	\$63.86
C200-102	32oz	4.50 x 5.25"	114.30 x 133.35	100/cs	\$92.70
C200-103	1.9L (64oz.)	5.75 x 6.00"	146.05 x 152.40	50/cs	\$79.32
C200-104	2.5L (86oz.)	5.80 x 7.50"	147.32 x 190.50	25/cs	\$44.30
C200-105	5.1L (172oz.)	8.75 x 7.00"	222.25 x 177.80	10/cs	\$40.18

Hinged Lid Containers, PE

These hinged lid containers are ideal for use just about anywhere. They feature a secure snap closure with hinged lid that eliminates lost caps. Containers offer air and moisture resistance to contents. Manufactured from flexible FDA approvable polyethylene resin.



Part No.	Capacity	Height	Diameter	Qty	List
M461-336	1/4oz	13mm	41mm	100/cs	\$69.44
M461-337	1/2oz	19mm	41mm	100/cs	\$77.68
M461-338	1 flat oz.	25mm	51mm	100/cs	\$107.21
M461-339	1oz	38mm	41mm	100/cs	\$103.38
M461-340	2oz	41mm	51mm	100/cs	\$126.79
M461-341	4oz	86mm	51mm	100/cs	\$166.91

Freezing and Storage Containers

Stackable.

These containers are made of high-density polyethylene with low-density polyethylene lids.

Perfect for storage of many items around the lab.

Can be used down to -80°C (-112°F).



Part No.	Capacity	Dimensions (L x W x H)	Qty	List
M440-232	2.1L (71oz.)	12.5 x 12.5 x 17cm (4 ⁷ / ₈ x 4 ⁷ / ₈ x 6 ³ / ₄ ")	3/pk	\$67.92

PFA Sample Containers with Screw Cap

Suited for sample collection, transport and storage. Supplied with a PFA screw cap.



Part No.	Volume	Height	Diameter	Thread	Qty	List
T710-360	30mL	54mm	38mm	40 GL	1/ea	\$109.50
T710-362	60mL	90mm	38mm	40 GL	1/ea	\$132.00
T710-364	90mL	62mm	54mm	56 GL	1/ea	\$150.00
T710-366	180mL	112mm	54mm	56 GL	1/ea	\$184.50

Snap Cap Containers, PS

Snap Cap Containers are molded of rigid-wall styrene containers with tight fitting polyethylene snap-on caps.

Excellent for storing dry materials, powders, tablets, etc.

Approximately 16 drams per ounce. 7 dram size may be used with automatic cell counters for collection of sample and where venous samples are used, for dilution purposes. Maximum temperature polystyrene is 70°C.

*without cap



Part No.	Capacity	I.D	Height*	Qty	List
M461-827	3 drams / 8mL	17mm	48mm	144/cs	\$89.21
M461-828	5 drams / 17mL	22mm	50mm	144/cs	\$91.18
M461-829	7 drams / 24mL	26mm	50mm	144/cs	\$99.18
M461-830	10 drams / 40mL	27mm	82mm	144/cs	\$125.53
M461-831	15 drams / 57mL	33mm	62mm	144/cs	\$148.62
M461-832	20 drams / 69mL	38mm	63mm	144/cs	\$180.47
M461-833	30 drams / 113mL	46mm	75mm	72/cs	\$126.47
M461-834	40 drams / 145mL	45mm	98mm	72/cs	\$148.09

Non Sterile Disposable Specimen Container

Polypropylene Container - Polyethylene Screw Cap

Graduated. Heavy-duty thick wall construction of both container and lid ensures a positive leakproof seal time after time. The drip ring on the container reduces the chances of contamination.

Wide base design for stable reliable use. Molded-in graduations up to 128mL / 4oz. Supplied non sterile and packaged in bags of 100 stacked by 10's. Yellow caps packed separately in bags of 100.



Part No.	Packaging	Qty	List
C330-047	100/Bag	500/cs	\$208.58

SecurTainer™ III Specimen Containers

Container made of polypropylene.

Closure made of polyethylene.

Chemically resistant and shatterproof, The SecurTainer™ III Specimen Containers are supplied with a leakproof screw cap, particularly important when transporting hazardous material. Ideal for transport and storage of urine, sputum and most liquids or particulate samples.

Containers are uniquely stackable, shatter resistant and are manufactured from virgin, high-clarity polypropylene. Available in many sizes from 20 to 120mL. Containers and caps packaged separately in bags of 100. Non sterile. Functional temperature range: -90°C to +100°C.



Part No.	Volume	Qty	List
C330-064	20mL	500/cs	\$123.25
C330-065	40mL	500/cs	\$151.50
C330-066	60mL	500/cs	\$158.65
C330-067	90mL	400/cs	\$128.80
C330-063	120mL	300/cs	\$122.45



Disposable Specimen Containers

Choose either translucent or opaque containers.
Maximum temperature HDPE 110°C.

Containers are HDPE except 8, 16, 32oz. natural and white and 83oz. natural, which are PPCO, a copolymer of polypropylene and high density polyethylene. PPCO offers a product with a higher temperature range while maintaining good impact strength. Recycling code is "5" for PP and the HDPE recycling code remains "2".

Both natural and white lids, all sizes, are made of LLDPE. Linear Low Density Polyethylene is tough like LDPE and a bit more rigid like HDPE, thereby allowing for a tight fitting lid. Recycling code is 4. Designed to simplify and standardize the handling and storage of specimens. The containers are inert and cannot be attacked by formaldehyde or weak acids or bases. Will resist freezing or boiling. They have long shelf lives and are easily disposable. Sturdy enough for reuse. Easy to store, requires little space. Price includes container with lid.



White Opaque Disposable Specimen Containers

Part No.	Capacity	Material	O.D.	Height*	Qty	List
M460-304	120mL (4.2oz.)	HDPE	3.2"	1.8"	250/cs	\$236.71
M460-305	240mL (7.7oz.)	PPCO	3.2"	3.5"	250/cs	\$221.82
M460-306	480mL (15.5oz.)	PPCO	3.6"	4.0"	100/cs	\$110.03
M460-307	960mL (34.5oz.)	PPCO	4.6"	5.3"	100/cs	\$181.44
M460-308	2000mL (70.1oz.)	PPCO	5.9"	6.6"	50/cs	\$171.94
M460-309	4800mL (168.8oz.)	HDPE	8.1"	7.8"	25/cs	\$165.00
M460-310	Contains: 25-M460-304, 20-M460-305, 20-M460-306, 20-M460-307, 10-M460-308, 5-M460-309					\$157.85

* Dimensions with lid.

Natural Disposable Specimen Containers

Part No.	Capacity	Material	O.D.	Height*	Qty	List
M460-290	120mL (4.2oz.)	HDPE	3.2"	1.8"	250/cs	\$225.68
M460-294	240mL (7.7oz.)	PPCO	3.2"	3.5"	250/cs	\$220.74
M461-839	240mL (7.7oz.)	PPCO	4.875"	1.875"	250/cs	\$75.50
M460-295	480mL (15.5oz.)	PPCO	3.6"	4.0"	100/cs	\$114.74
M460-296	960mL (34.5oz.)	PPCO	4.6"	5.3"	100/cs	\$180.24
M460-297	2000mL (70.1oz.)	PPCO	5.9"	6.6"	50/cs	\$162.88
M460-292	2200mL (83.6oz.)	PPCO	6.4"	6.6"	25/cs	\$102.09
M460-298	4800mL (168.8oz.)	HDPE	8.1"	7.8"	25/cs	\$175.74

* Dimensions with lid

Cubitainers

Material: Plastic Neck I.D.: 38mm
Color: Natural Neck Finish: 38/400
Shape: Cube



Part No.	Volume	Qty	List
B535-004	20L	36/cs	\$307.84
B535-003	10L	36/cs	\$195.49
B535-001	4L	12/cs	\$40.96
B535-002	1L	12/cs	\$34.84
B535-005	4L	160/cs	\$430.30
B535-006	1L	128/cs	\$425.34

Cubitainer® - Inflated with Carton

Color: Natural Material: LDPE
Attached Cap: White PP SturdeeSeal® PE Foam Lined Cap and Dust Cover
Neck Finish: 38-400 with Cap and Dust Cover
Packaging: UN Rating: 4G/Y6/S



Part No.	Capacity / Volume	Qty	List
B427-902	1 gal (4 L)	8/cs	\$81.76

Cubitainer® - Inflated with Carton

Color: Natural Material: LDPE
Attached Cap: White PP SturdeeSeal® PE Foam Lined Cap and Dust Cover
Neck Finish: 38-400 with Cap and Dust Cover
Packaging: UN Rating: 4G/Y6/S/



Part No.	Capacity / Volume	Qty	List
B427-757	1 gal (4 L)	10/cs	\$94.45

Cubitainer® - Inflated with Carton

Color: Natural Material: LDPE
Attached Cap: n/a
Neck Finish: 38-400 with Cap
Packaging: UN Rating: 4G/Y32/S



Part No.	Capacity / Volume	Qty	List
B427-758	5 gal (20 L)	48/cs	\$700.80

Quick Serve Tap for Cubitainers®

Color: Natural Material: HDPE
Attached Cap: n/a
Neck Finish: 38mm
Packaging: UN Rating: n/a

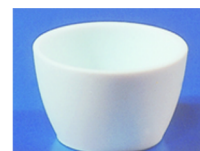


Part No.	Description	Qty	List
B427-744	Quick Serve Tap	1100/cs	\$1650.00

CRUCIBLES

PTFE Crucibles

Part No.	Volume (mL)	Height	Diameter	Qty	List
S351-275	5mL / 0.27oz	16mm	27mm	1/ea	\$22.31
S351-276	25mL / 0.60oz	26mm	44mm	1/ea	\$34.16
S351-277	75mL / 0.60oz	41mm	56mm	1/ea	\$49.26
S351-278	100mL / 3oz	45mm	60mm	1/ea	\$64.06



Crucible, PTFE

PTFE Crucibles are chemically inert and usable to 280°C. Machine finished surfaces for ease of cleaning and to eliminate contamination.

Part No.	Capacity	Diameter	Height	Qty	List
M460-214	5mL	16mm	27mm	1/ea	\$23.59
M460-215	25mL	26mm	44mm	1/ea	\$34.21
M460-216	75mL	41mm	56mm	1/ea	\$55.09
M460-217	100mL	46mm	71mm	1/ea	\$65.12



EVAPORATING DISHES

PFA Evaporating Dishes, PFA with Snap on Lid, PE

Evaporating dishes are autoclavable, easy to clean and withstand temperatures from -200°C to 250°C. Snap-on lid (PE) is not autoclavable.

Part No.	Volume	Height	Diameter	Qty	List
T710-321	25mL	25mm	50mm	1/ea	\$115.50
T710-322	50mL	54mm	50mm	1/ea	\$154.50



Tall Form Evaporating Dish, PTFE

Tall form evaporating dishes with pouring spout are manufactured from pure PTFE with heavy wall. Inert and useable to 260°C. Smooth internal finish.

Part No.	Capacity	Height	Diameter	Qty	List
M461-745	25mm	34mm	38mm	1/ea	\$39.91
M461-746	50mm	50mm	40mm	1/ea	\$49.41
M461-747	100mm	50mm	64mm	1/ea	\$70.18
M461-748	150mm	43mm	78mm	1/ea	\$82.00
M461-749	180mm	50mm	80mm	1/ea	\$95.68
M461-750	250mm	50mm	97mm	1/ea	\$114.88
M461-751	350mm	60mm	100mm	1/ea	\$127.68



Low Form Evaporating Dish, PTFE

Low form evaporating dishes with pouring spout are manufactured from pure PTFE with heavy wall. Inert and useable to 260°C. Smooth internal finish.

Capacity (mm)	25	50	100	180	350	400
Height (mm)	10	13	16	19	34	36
Diameter (mm)	63	79	100	121	130	130

Part No.	Capacity	Height	Diameter	Qty	List
M461-752	25mm	10mm	63mm	1/ea	\$30.77
M461-753	50mm	13mm	79mm	1/ea	\$38.44
M461-754	100mm	16mm	100mm	1/ea	\$57.65
M461-755	180mm	19mm	121mm	1/ea	\$71.47
M461-756	350mm	34mm	130mm	1/ea	\$102.18
M461-757	400mm	36mm	130mm	1/ea	\$118.29



PTFE Evaporating Dishes



Flat Form

Part No.	Volume	Height	Diameter	Qty	List
S351-232	25mL (0.83oz)	25mm	42mm	1/ea	\$36.60
S351-233	50mL (1.66oz)	20mm	60mm	1/ea	\$37.64
S351-234	100mL (3.33oz)	28mm	80mm	1/ea	\$53.15
S351-235	180mL (6.00oz)	46mm	78mm	1/ea	\$72.64
S351-236	350mL (11.7oz)	55mm	100mm	1/ea	\$101.45

Flat Form with Spout

Part No.	Volume	Height	Diameter	Qty	List
S351-795	25mL (0.83oz)	12mm	65mm	1/ea	\$35.20
S351-796	50mL (1.66oz)	16mm	82mm	1/ea	\$41.16
S351-797	100mL (3.33oz)	20mm	102mm	1/ea	\$58.97
S351-798	180mL (6.00oz)	22mm	130mm	1/ea	\$81.37
S351-799	350mL (11.7oz)	36mm	132mm	1/ea	\$119.75
S351-800	400mL (13.3oz)	40mm	136mm	1/ea	\$133.45

Tall Form with Spout

Part No.	Volume	Height	Diameter	Qty	List
S351-229	25mL (0.83oz)	34mm	38mm	1/ea	\$37.86
S351-230	50mL (1.66oz)	50mm	40mm	1/ea	\$38.63
S351-231	100mL (3.33oz)	50mm	64mm	1/ea	\$50.47
S351-237	150mL (6.00oz)	43mm	78mm	1/ea	\$58.44
S351-238	180mL (11.7oz)	50mm	80mm	1/ea	\$59.27
S351-239	250mL (6.00oz)	50mm	97mm	1/ea	\$71.75
S351-240	350mL (11.7oz)	60mm	100mm	1/ea	\$100.57

Chemware® PFA Evaporating Dish

Chemically inert.

Ideal for trace metal analysis.

Transparent for easy viewing.

Perfect for microwave use.

Smooth, non-stick surface.

The Chemware® PFA Evaporating Dish design promotes evaporation of excess fluids to produce a concentrated solution or solid precipitate. The flat bottom provides good surface contact with a heat source, while the non-stick angled walls direct fluids to the base, which limits condensation on the dish wall. This PFA dish can be used in a wide range of temperatures from cryogenics to 500°F (260°C). The dish is also ideal for holding solid samples or small volumes of liquid. Features a broad spout for easy pouring. Ideal for use in biotechnology, chemical processing, dairy/food & beverage, environmental, laboratory and pharmaceutical processes.



Part No.	Volume	Capacity to Brim	Height	Qty	List
P440-439	100mL	116	29.5mm	1/ea	\$59.60

Chemware® PTFE Evaporating Dishes

Chemically inert.

Ideal for ultra-pure samples.

Withstands temperatures up to 550°F (288°C).

The Chemware® PTFE Evaporating Dish can be used to concentrate a solution or to create solid precipitates. The evaporating dish can also be used as a shallow bath, as a drying dish or as a beaker cover to protect contents from dust and other contaminants. PTFE material is unbreakable, chemically inert and withstands temperatures up to 550°F (288°C). The non-stick surface is stain resistant and easy to clean. Features a broad spout for easy pouring. Can be used for biotechnology, chemical processing, dairy/food & beverage, environmental, laboratory and pharmaceutical applications.



Part No.	Volume	Capacity to Brim	Height	Qty	List
P440-382	100mL	139	37.3mm	1/ea	\$54.09
P440-383	400mL	470	45.2mm	1/ea	\$84.14

Evaporating Dish

Doubles as a weighing dish.

Smooth polypropylene dish with easy pour spout holds up to 175mL.

Useful for titration and evaporation.

Resists acids and alkalis.

Autoclavable at 121°C (250°F).

Can also be used as a reusable weighing dish.



Part No.	Dimensions	Qty/pk	List/pk	Qty/cs	List/cs
M441-411	10cm Dia. x 4.2cm Deep	6/pk	\$60.75	72/cs	\$729.00

FLASKS

Erlenmeyer Flasks, Wide Mouth, PP

Wide mouth polypropylene flasks are autoclavable and include a screw cap for easy mixing and storage of solutions. Flasks are graduated to show approximate volumes.



Part No.	Capacity	Grad. Interval	Qty	List
B724-583	125mL	25mL	12/pk	\$38.95
B724-582	250mL	50mL	12/pk	\$53.11
B724-581	500mL	50mL	12/pk	\$79.63

Erlenmeyer Flasks with Screw Closure, PP

Translucent, wide mouth, Erlenmeyer flasks with polypropylene screw closures. Printed blue graduations. Excellent chemical resistance. Erlenmeyer Flasks can also take stoppers. Autoclavable.



Part No.	Capacity	Cap Size	Stopper Size	Qty	List
M460-202	50mL	40mm	34/35	6/cs	\$70.53
M460-203	100mL	40mm	34/35	6/cs	\$88.18
M460-204	250mL	52mm	45/50	6/cs	\$117.15
M460-205	500mL	52mm	45/50	6/cs	\$138.88
M460-206	1000mL	52mm	45/40	4/cs	\$133.21

Azlon Erlenmeyer Flasks, PP

Heavy walled, autoclavable, Azlon Erlenmeyer flasks with tooled necks. Supplied complete with polypropylene stoppers.

Temperature characteristics and approximate graduations are clearly and indelibly printed on each Erlenmeyer flask.



Part No.	Capacity	Cap Size	Base O.D.	Height w/o Stopper	Qty	List
M462-024	250mL	29/32mm	84mm	140mm	1/ea	\$50.56
M462-025	500mL	34/35mm	107mm	158mm	1/ea	\$56.88
M462-026	1000mL	34/35mm	130mm	198mm	1/ea	\$35.15

Erlenmeyer Flasks, PP, with Screw Caps, PP

These wide-neck Erlenmeyer flasks, manufactured from highly transparent polypropylene, are an excellent break-resistant alternative to glass. Supplied with PP screw caps, the flask neck also accommodates standard NS stoppers. Approximate volume graduations are screened-on. To preserve markings, cleaning at no higher than 60°C is recommended.



Part No.	Volume	Increment	Thread GL	Stopper NS	Qty	List
F521-022	50mL	10mL	40	34/35	6/pk	\$61.50
F521-023	100mL	20mL	40	34/35	6/pk	\$70.50
F521-025	250mL	50mL	52	45/40	6/pk	\$93.90
F521-081	500mL	100mL	52	45/40	6/pk	\$111.00
F521-083	1000mL	200mL	52	45/40	4/pk	\$106.50

Volumetric Flasks – Class A, USP, Certified - Transparent

These are supplied with a glass stopper with a dripping tip. Available in both transparent and amber color. High contrast blue enamel print on transparent flasks and white on amber flasks, represent the optimum combination of resistance and readability. Available in all ISO sizes from 5mL to 2000mL. Made of low expansion coefficient, chemically resistant borosilicate 3.3. Volumetric flasks are indispensable for preparing dilutions and standard solutions. All BLAUBRAND® USP volumetric flasks are supplied with a batch number and an accompanying USP batch certificate in the original packaging.



Class A, USP, Certified Volumetric Flasks, Transparent

Part No.	Volume	Error Limits ±	Stopper Size NS	Qty	List
F521-000	5mL	0.02mL	10/19	2/pk	\$79.48
F521-001	10mL	0.02mL	10/19	2/pk	\$79.50
F521-002	20mL	0.02mL	10/19	2/pk	\$80.13
F521-003	25mL	0.03mL	10/19	2/pk	\$80.13
F521-004	50mL	0.05mL	12/21	2/pk	\$85.80
F521-005	100mL	0.08mL	14/23	2/pk	\$92.95
F521-006	200mL	0.10mL	14/23	2/pk	\$123.18
F521-007	250mL	0.12mL	14/23	2/pk	\$123.18
F521-008	500mL	0.20mL	19/26	2/pk	\$128.38
F521-009	1000mL	0.30mL	24/29	1/pk	\$122.20
F521-011	2000mL	0.50mL	29/32	1/pk	\$162.68

• High contrast blue enamel print



Volumetric Flasks – Class A, USP, Certified - Amber

These are supplied with a glass stopper with a dripping tip. Available in both transparent and amber color. High contrast blue enamel print on transparent flasks and white on amber flasks, represent the optimum combination of resistance and readability. Available in all ISO sizes from 5mL to 2000mL. Made of low expansion coefficient, chemically resistant borosilicate 3.3. Volumetric flasks are indispensable for preparing dilutions and standard solutions. All BLAUBRAND® USP volumetric flasks are supplied with a batch number and an accompanying USP batch certificate in the original packaging.



Class A, USP, Certified Volumetric Flasks, Amber

Part No.	Volume	Error Limits ±	Stopper Size NS	Qty	List
F521-012	5mL	0.02mL	10/19	2/pk	\$168.68
F521-013	10mL	0.02mL	10/19	2/pk	\$168.68
F521-014	20mL	0.02mL	10/19	2/pk	\$168.35
F521-015	25mL	0.03mL	10/19	2/pk	\$168.35
F521-016	50mL	0.05mL	12/21	2/pk	\$174.85
F521-017	100mL	0.08mL	14/23	2/pk	\$176.48
F521-018	200mL	0.10mL	14/23	2/pk	\$218.90
F521-019	250mL	0.12mL	14/23	2/pk	\$242.78
F521-020	500mL	0.20mL	19/26	2/pk	\$295.28
F521-021	1000mL	0.30mL	24/29	1/pk	\$213.20

• High contrast white enamel print

Volumetric Flask, Class B

An excellent alternative to glass flasks, these plastic volumetric flasks meet Class B tolerances per DIN EN ISO 1042. Gravimetrically calibrated “to contain” at 20°C. Available in crystal clear PMP or highly transparent PP, with PP stopper caps or screw caps. The PMP flasks can tolerate thermal stress of up to 121°C (autoclaving) without permanent exceeding of the tolerance limits (PP flasks up to 60°C). However, to preserve markings, cleaning at no higher than 60°C is recommended.



Class B Volumetric Flask, PMP, with NS Stopper, PP

Part No.	Volume	Tolerance ±	Height	Stopper NS	Qty	List
F521-090	25mL	0.08mL	115mm	10/19	6/pk	\$124.50
F521-097	50mL	0.12mL	150mm	12/21	6/pk	\$154.50
C210-025	100mL	0.20mL	180mm	14/23	6/pk	\$175.50
F521-056	250mL	0.30mL	235mm	19/26	5/pk	\$187.50
F521-062	500mL	0.50mL	270mm	19/26	4/pk	\$157.50
F521-067	1000mL	0.80mL	310mm	24/29	3/pk	\$138.00

Class B Volumetric Flask, PP, with NS Stopper, PP

Part No.	Volume	Tolerance ±	Height	Stopper NS	Qty	List
C210-010	10mL	0.08mL	90mm	10/19	6/pk	\$106.50
F521-089	25mL	0.08mL	115mm	10/19	6/pk	\$106.50
F521-096	50mL	0.12mL	150mm	12/21	6/pk	\$118.50
F521-049	100mL	0.20mL	180mm	14/23	6/pk	\$124.50
F521-055	250mL	0.30mL	235mm	19/26	5/pk	\$109.50
F521-061	500mL	0.50mL	270mm	19/26	4/pk	\$102.00
F521-078	1000mL	0.80mL	310mm	24/29	3/pk	\$97.50

Class B Volumetric Flask, PMP, with Screw Caps, PP

Part No.	Volume	Tolerance ±	Height	Thread GL	Qty	List
F521-071	10mL	0.08mL	90mm	18	6/pk	\$123.00
F521-088	25mL	0.08mL	115mm	18	6/pk	\$123.00
F521-095	50mL	0.12mL	150mm	18	6/pk	\$156.00
F521-048	100mL	0.20mL	180mm	18	6/pk	\$175.50
C210-050	250mL	0.30mL	235mm	25	5/pk	\$166.50
F521-060	500mL	0.50mL	270mm	25	4/pk	\$159.00
F521-066	1000mL	0.80mL	310mm	32	3/pk	\$138.00

Class B Volumetric Flask, PP, with Screw Caps, PP

Part No.	Volume	Tolerance ±	Height	Thread GL	Qty	List
F521-070	10mL	0.08mL	90mm	18	6/pk	\$108.00
F521-087	25mL	0.08mL	115mm	18	6/pk	\$109.50
F521-094	50mL	0.12mL	150mm	18	6/pk	\$126.00
F521-102	100mL	0.20mL	180mm	18	6/pk	\$133.50
F521-054	250mL	0.30mL	235mm	25	5/pk	\$147.50
F521-059	500mL	0.50mL	270mm	25	4/pk	\$130.50
F521-065	1000mL	0.80mL	310mm	32	3/pk	\$112.50

Volumetric Flask, Class A

Plastic volumetric flasks are an excellent break-resistant alternative to glass. Available in crystal clear PMP, these volumetric flasks are calibrated "to contain" and meet Class A tolerances per DIN EN ISO 1042. Supplied certificate includes mean test value and lot (lot and year are imprinted on product). Thermal stress up to 121°C (autoclaving) does not cause permanent exceeding of the tolerance limits. However, to preserve markings, cleaning at no higher than 60°C is recommended.



Class A Volumetric Flask, PMP, with NS Stopper, PP, Certified

Part No.	Volume	Tolerance ±	Height	Stopper NS	Qty	List
F521-064	10mL	0.04mL	90mm	10/19	6/pk	\$147.00
F521-085	25mL	0.04mL	115mm	10/19	6/pk	\$147.00
F521-092	50mL	0.06mL	150mm	12/21	6/pk	\$186.00
F521-099	100mL	0.10mL	180mm	14/23	6/pk	\$211.50
F521-052	250mL	0.15mL	235mm	19/26	5/pk	\$223.50
F521-058	500mL	0.25mL	270mm	19/26	4/pk	\$184.50
F521-063	1000mL	0.40mL	310mm	24/29	3/pk	\$165.00

PFA Volumetric Flasks with Screw Caps

Volumetric flasks have individually calibrated ring-markings that are easy to read and meet Class A tolerances per DIN EN ISO 1042. High transparency simplifies meniscus verification. Autoclavable at 121°C without affecting tolerances.



Volumetric Flasks with Screw Caps, PFA

Part No.	Volume	Tolerance	Height	Thread GL	Qty	List
F521-026	10mL	0.04mL	90mm	18	1/ea	\$346.50
F521-027	25mL	0.04mL	115mm	18	1/ea	\$348.00
F521-028	50mL	0.06mL	150mm	18	1/ea	\$355.50
F521-029	100mL	0.10mL	180mm	18	1/ea	\$439.50
F521-030	250mL	0.15mL	235mm	25	1/ea	\$552.00
F521-031	500mL	0.25mL	270mm	25	1/ea	\$636.00

Kartell Volumetric Flasks, PP

Kartell plastic volumetric flasks create no meniscus so final readings are easy.

Thick walls eliminate distortion.

Thin neck make final reading precise.

Suitable for foodstuffs.

Kartell plastic volumetric flasks are molded to class B tolerance in translucent polypropylene with a tooled neck.

Each plastic volumetric flask is Calibrated gravimetrically at 20°C. Plastic flasks are supplied complete with polypropylene stoppers and have the material and temperature characteristics printed in green.



Part No.	Capacity	Height	Base O.D.	GL	Qty	List
M461-400	25mL	121mm	36mm	18	5/cs	\$115.53
M461-401	50mL	143mm	46mm	18	5/cs	\$121.12
M461-402	100mL	174mm	58mm	18	5/cs	\$142.77
M461-403	250mL	225mm	82mm	25	5/cs	\$158.21
M461-404	500mL	265mm	100mm	25	2/cs	\$71.50
M461-405	1000mL	325mm	120mm	25	2/cs	\$90.68

Kartell Volumetric Flasks with Stoppers, PMP

These crystal clear volumetric flasks create no meniscus so final readings are easy. Calibrated gravimetrically at 20°C.

Thick walls eliminate distortion. Thin necks make final measurement precise.

Autoclavable to 170°C. Chemically cleaner than glass and chemically non-absorbant. No wetting. Stopper included.

Suitable for foodstuff.

*Height w/Stopper



Part No.	Capacity	Neck Size	Height*	Base O.D.	Qty	List
M461-406	50mL	14/23	143mm	46mm	5/cs	\$174.38
M461-407	100mL	14/23	174mm	58mm	5/cs	\$205.56
M461-408	250mL	19/26	225mm	82mm	5/cs	\$232.29
M461-409	500mL	19/26	265mm	100mm	2/cs	\$104.06
M461-410	1000mL	19/26	325mm	120mm	2/cs	\$130.59

*with stopper

Glass Flasks can be found on pages 172-180.



PFA Round Bottom Flasks

For use with rotary evaporators and distillation of high purity chemicals. Translucent surfaces simplify solvent monitoring. Maximum temperature under vacuum is 50°C.

Round Bottom Flasks, PFA.



Part No.	Volume	Height	Neck	Diameter	Qty	List
F521-032	100mL	117mm	29/32mm	65mm	1/ea	\$229.50
F521-033	250mL	147mm	29/32mm	88mm	1/ea	\$270.00
F521-034	500mL	177mm	29/32mm	107mm	1/ea	\$369.00

FUNNELS

Funnels

Available in a variety of materials, sizes and stem diameters to fit your application. The large funnels (except cat. no. F521-045 and F521-047) have handles. Volume is approximate.



Funnels, PP

Part No.	Diameter	Volume	Length	Stem Dia.	Stem Length	Qty	List
F521-036	30mm	6mL	47mm	4mm	25mm	24/pk	\$30.00
F521-037	40mm	14mL	65mm	4mm	35mm	24/pk	\$36.00
F521-038	50mm	32mL	85mm	7mm	43mm	24/pk	\$45.00
F521-039	75mm	88mL	110mm	6mm	55mm	12/pk	\$28.50
F521-040	100mm	222mL	155mm	8mm	77mm	12/pk	\$54.00
F521-041	120mm	342mL	180mm	11mm	90mm	12/pk	\$67.50
F521-042	150mm	817mL	220mm	15mm	95mm	12/pk	\$90.00

With Volume Markings

Food-safe according to EC Directive No. 10/2011

Large Funnels, PP or HDPE

Part No.	Diameter	Volume	Length	Stem Dia.	Qty	List
F521-043	200mm (PP)	1300mL	200mm	22mm	6/pk	\$103.50
F521-044	250mm (PP)	3200mL	260mm	30mm	6/pk	\$180.00
F521-045	350mm (PP)	12500mL	440mm	35mm	1/pk	\$63.00
F521-046*	400mm (HDPE)*	12500mL	365mm	42mm	1/pk	\$160.50
F521-047*	430mm (HDPE)*	17500mL	420mm	37mm	1/pk	\$213.00

Cat. No. F521-045 and F521-047 without handles.

Food-safe according to EC Directive No. 10/2011 (*NOT Food Safe)

Powder Funnels, PP

Part No.	Diameter	Length	Stem Dia.	Stem Length	Qty	List
T710-540	65mm	68mm	15mm	25mm	10/pk	\$38.40
T710-541	80mm	75mm	21mm	25mm	10/pk	\$55.50
T710-542	100mm	94mm	22mm	20mm	10/pk	\$58.50
T710-543	120mm	110mm	26mm	20mm	10/pk	\$72.00
T710-544	150mm	138mm	28mm	22mm	5/pk	\$46.50

Food-safe according to EC Directive No. 10/2011

Kartell Analytical Funnel, PP

Plastic analytical funnels are made of autoclavable polypropylene and designed specifically for analytical chemistry.

These funnels have long, narrow bore that works best for liquids. Each size takes a standard size filter paper.

Body of funnel is exact 60° angle. Provided with external and internal ribs.

Maximum temperature for polypropylene is 120°C. Suitable for foodstuff.



Part No.	Top O.D.	Stem Length	Stem I.D.	Qty	List
C420-050	35mm	37mm	3mm	100/cs	\$328.24
C420-051	45mm	43mm	3mm	100/cs	\$359.74
C420-052	65mm	63mm	7mm	100/cs	\$484.00
C420-053	80mm	68mm	8mm	100/cs	\$664.00
C420-054	100mm	80mm	8mm	50/cs	\$449.74
C420-055	120mm	85mm	9mm	50/cs	\$469.85
C420-056	150mm	113mm	11mm	25/cs	\$487.35
C420-057	180mm	140mm	11mm	25/cs	\$565.77

Heavy Duty Funnels

Durable, versatile funnels are available in assorted sizes to suit your needs.
Polypropylene plastic with ridges to help prevent vapor lock.
Highly recommended for continuous laboratory work.
Steam autoclavable at 121°C (250°F).



Part No.	Capacity / Height	Stem I.d. x O.d.	Top I.d. x O.d.	Stem Length	Qty/pk	List/pk	Qty/cs	List/cs
M440-182	30mL (1oz) / 6.7cm	0.8 x 1.4cm	4.9 x 5.5cm	3.8cm	6/pk	\$75.00	72/cs	\$900.00
M440-183	90mL (3oz) / 12.7cm	0.6 x 1.1cm	7.6 x 8.1cm	7.0cm	6/pk	\$88.28	72/cs	\$1059.36
M440-184	180mL (6oz) / 10.5cm	1.3 x 1.9cm	10.2 x 10.5cm	4.5cm	6/pk	\$101.48	72/cs	\$1217.76
M440-185	480mL (16oz) / 17.8cm	1.1 x 1.9cm	14.6 x 15.5cm	8.0cm	3/pk	\$59.78	24/cs	\$478.24
M440-186	720mL (27oz) / 18.7cm	1.9 x 2.5cm	17.0 x 18.3cm	7.5cm	3/pk	\$66.53	24/cs	\$532.24
M440-187	3845mL (128oz) / 34.3cm	2.2 x 3.5cm	25.6 x 26.7cm	14.0cm	1/pk	\$58.92	6/cs	\$353.52

Funnels, Powder, PP

Polypropylene funnels have short, wide stems for convenient use with powders. Autoclavable.



Part No.	Capacity	Overall Height	Top I.d.	Stem Length	Qty	List
B724-772	2oz	65mm	65mm	22mm	12/pk	\$9.30
B724-773	3oz	85mm	78mm	30mm	12/pk	\$8.70
B724-774	5oz	105mm	100mm	33mm	6/pk	\$11.48
B724-775	16oz	135mm	145mm	30mm	6/pk	\$16.08

Large Industrial Drum Funnel

Safely fill drums and containers.

This large, one piece, heavy-duty funnel is 6.35mm thick.

Perfect for industrial drums and other large funnel needs.

Made from low density polyethylene.

Exhibits exceptional chemical resistance to most acids, alkalis and some organic solvents.



Part No.	Capacity	Height	Stem I.d. x O.d.	Top I.d. x O.d.	Stem Length	Qty	List
M440-191	18L (4.75 gal)	38.0cm	3.7 x 5.2cm	36.2 x 42.5cm	12.6cm	1/pk	\$159.50

Powder Funnels PP

These wide stem, autoclavable plastic powder funnels are translucent and allow for the passage of larger particles.

Economical, fast and efficient powder funnels.

Set contains 2 each sizes: 65, 100, 150



Part No.	Top I.d.	Stem Dia.	Overall Length	Qty	List
M461-739	65mm	16mm	68mm	30/cs	\$184.79
M461-740	80mm	22mm	75mm	30/cs	\$216.91
M461-741	100mm	23mm	94mm	30/cs	\$263.21
M461-742	120mm	27mm	110mm	30/cs	\$315.56
M461-743	150mm	29mm	138mm	20/cs	\$247.00

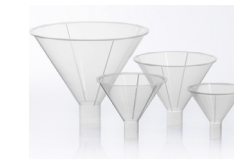
Part No.	Contains	List
M461-744	65, 100, & 150 (2 each)	\$54.32

Powder Funnels

Specially designed for transferring powders, these funnels have a wide stem for clog-free filling.

Made of polypropylene plastic with a 60° angle.

Steam autoclavable at 121°C (250°F).



Part No.	Capacity	Height	Stem I.d. x O.d.	Top I.d. x O.d.	Stem Length	Qty/pk	List/pk	Qty/cs	List/cs
M440-166	49mL (1.7oz)	7.1cm	1.2 x 1.5cm	6.5 x 7.0cm	2.5cm	12/pk	\$69.67	36/cs	\$209.01
M440-167	138mL (4.7oz)	8.3cm	1.5 x 1.8cm	8.0 x 8.5cm	2.5cm	12/pk	\$95.67	36/cs	\$287.01
M440-168	248mL (8.4oz)	8.3cm	1.4 x 2.1cm	10.0 x 8.5cm	2.6cm	6/pk	\$52.25	24/cs	\$209.00
M440-169	784mL (26.5oz)	13.6cm	2.4 x 2.9cm	14.2 x 14.9cm	3.0cm	4/pk	\$46.83	24/cs	\$280.98



Funnels, Short Stem, Plastic

These powder funnels feature wide, short stems. The 35mL and 300mL sizes are made of high density polyethylene and the 100mL size is made of polypropylene.



Part No.	Capacity	Top O.d.	Stem Length	Qty	List
B725-585	35mL	65mm	20mm	12/pk	\$22.64
B725-584	100mL	85mm	30mm	12/pk	\$24.86
B725-586	300mL	125mm	38mm	12/pk	\$31.07

Funnels, Standard Stem, PP

These clear funnels have long stems, smooth walls and external ribs to prevent air lock. Molded in polypropylene. Autoclavable.



Part No.	Capacity	Top O.d.	Stem Length	Qty	List
B724-568	20mL	57mm	40mm	12/pk	\$6.35
B724-567	45mL	67mm	65mm	12/pk	\$10.14
B724-566	75mL	79mm	70mm	12/pk	\$19.87
B724-570	150mL	101mm	85mm	6/pk	\$16.70
B724-569	500mL	150mm	110mm	6/pk	\$18.09

Standard Stem Funnels

Exclusive design saves time.

Polypropylene plastic funnels feature an exclusive filter-step internal design for speedier filtrations.

External ribs prevent airlock.

Parallel stem measures 8mm O.D.

Steam autoclavable at 121°C (250°F).



Part No.	Capacity	Height	Stem I.d. x O.d.	Top I.d. x O.d.	Stem Length	Qty/pk	List/pk	Qty/cs	List/cs
M440-171	32.8mL (1.1oz)	10.7cm	0.5 x 0.9cm	5.5 x 5.9cm	6.5cm	12/pk	\$75.38	36/cs	\$226.14
M440-172	59.1mL (1.97oz)	11.1cm	0.5 x 0.8cm	6.5 x 6.9cm	6.5cm	12/pk	\$78.30	36/cs	\$234.90
M440-173	91.8mL (3.1oz)	13.2cm	0.5 x 0.8cm	7.5 x 7.8cm	7.5cm	6/pk	\$40.50	36/cs	\$243.00
M440-174	209mL (7oz)	18.2cm	0.5 x 0.9cm	10.0 x 10.5cm	10.0cm	4/pk	\$51.45	24/cs	\$308.70

Heavy-Duty Long Stem Funnel

60° cone.

Heavy-duty, polypropylene plastic funnel with smooth walls, 60 degree cone angle and long stem.

External ribs prevent air lock.

Steam autoclavable at 121°C (250°F).



Part No.	Capacity	Height	Stem I.d. x O.d.	Top I.d. x O.d.	Stem Length	Qty/pk	List/pk	Qty/cs	List/cs
M440-170	75mL (2.5oz)	13.6cm	0.7 x 1.0cm	7.0 x 8.0cm	7.8cm	6/pk	\$38.78	24/cs	\$155.12

Drum/Carboy Funnel

Large funnels are ideal for filling drums, barrels, tanks and carboys providing ample volume and fast flow. Molded of polypropylene and steam autoclavable at 121°C (250°F).

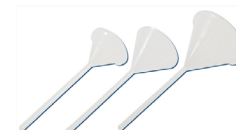


Part No.	Capacity	Stem Length	Qty	List
M440-190	14.1L	10.4cm	12/pk	\$99.18

Kartell Long Stem Funnel, PP

New from Kartell, these plastic long stem funnels are available in 3 volumes and 3 lengths with 60° side angles.

Long stem funnels are ribbed, made from food grade polypropylene and take standard size filter papers. Ideal for hard to reach areas with or without narrow openings. Suitable for foodstuff.



Part No.	Capacity	Diameter	Stem L x Dia.	Total Length	Qty	List
M461-412	50mL	65mm	150 x 8mm	194mm	2/cs	\$30.47
M461-413	100mL	78.5mm	143 x 8mm	206mm	2/cs	\$34.65
M461-414	225mL	103.5mm	145 x 8mm	194mm	2/cs	\$38.44

Funnels, Utility, PP

Available in three sizes, these funnels have eight internal ribs to facilitate filtration. They are made of polypropylene.



Part No.	Capacity	Top O.D.	Stem Length	Qty	List
B724-579	5mL	37mm	30mm	12/pk	\$8.90
B724-578	25mL	56mm	30mm	12/pk	\$11.83
B724-577	40mL	67mm	30mm	12/pk	\$11.53
B724-580	One each of the above 3 funnels			1/kit	\$4.25

Utility Funnel, PP/HDPE

Plastic utility funnels are inexpensive, lightweight and designed for general use. They are made of polypropylene and high density polyethylene depending on the size.

The 162mm size (M461-808) has a very large throat opening.



Part No.	Material	Capacity	Top O.D.	Height	Stem H x Dia.	Qty	List	
M461-804	PP	2oz	70mm	70mm	.20 x 10mm	36/cs	\$95.65	
M461-805	PP	4oz	89mm	102mm	.23 x 10mm	36/cs	\$116.09	
M461-806	PP	8oz	108mm	121mm	.38 x 11mm	24/cs	\$112.32	
M461-807	HDPE	16oz	127mm	146mm	.47 x 13mm	24/cs	\$161.82	
M461-808	HDPE	32oz	162mm	178mm	.70 x 25mm	12/cs	\$166.41	
M461-809	HDPE	64oz	203mm	203mm	.47 x 20mm	12/cs	\$225.56	
M461-288	Set contains 1 each of funnels oz: 4, 8, 16, 32, 64							\$47.50

Utility Type Funnels

For a variety of lab applications.

Externally ribbed, polypropylene funnels.

Steam autoclavable at 121°C (250°F).

Useful for a variety of lab applications.



Part No.	Capacity	Height	Stem I.D. x O.D.	Top I.d. x O.d.	Stem Length	Qty	List
M440-193	60mL (2.0oz)	6.6cm	1.1 x 1.4cm	6.4 x 7.1cm	1.9cm	12/pk	\$40.58
M440-194	120mL (4.0oz)	9.5cm	0.7 x 1.4cm	8.1 x 8.8cm	2.0cm	12/pk	\$52.75

Large Funnel, HDPE / LDPE

Large plastic funnels made of polyethylene. Big plastic funnels are designed for transferring liquids.

M461-810 funnel has external ribbing for air release; M461-811 has both internal and external ribbing.

Maximum temperature for LDPE is 80°C and HDPE is 110°C.



Part No.	Capacity	Material	Top O.D. x Outlet I.D.	Height x Stem	Qty	List
M460-212	6L	HDPE	13 1/8 x 1.25"	11 7/8 x 5"	4/cs	\$370.62
M460-213	13L	HDPE	16 x 1.30"	14 x 4 7/8"	2/cs	\$364.79
M461-810	4L	LDPE	7 5/8 x 0.56"	9 1/2 x 3 5/8"	6/cs	\$150.32
M461-811	6L	LDPE	12 1/4 x 0.63"	11 1/2 x 3 1/8"	2/cs	\$110.97

Be sure to remember to grab a filter adapter set!
Set of 7 neoprene adapters to help support your funnel.
These can be found on page 190





Buchner Table-Top Funnel

Filter large volumes quickly with a polyethylene plastic Table-Top Buchner Funnel using your choice of Fritware® or Perforated filter plate.

Removable hose barbed connector accepts 12.7mm (½") I.D. tube and threads into ¾" NPT bung on the funnel.

Fixed or removable Fritware® Porous Filter Plates supported by a multiple ring grid; HDPE, 6.4mm (¼") thick, with a non-porous ring at the periphery of the plate which seals filter paper when used.

Fritware® Porous Filter Plates available in two porosities (medium and coarse); medium is 45-90 microns while the coarse is 90-130 microns; use below 52°C (125°F).

Fixed or removable Perforated Filter Plates are made of 4.8mm thick HDPE with 4.8mm perforations on 11mm centers.

Perforated Filter Plates available in two versions (fixed or removable); fixed for coarse filtration or use with a cloth or paper filter; removable for use in precious metals recovery; use below 52°C (125°F).

Use the M440-820 Funnel Trowel to quickly and efficiently smooth fissures appearing during the filtration process.

Note: Truck shipping is required for 36" funnels

10.25" (26cm) Funnel Inside Diameter

Part No.	Description	Overall Height	Rim To Plate	Qty	List
M440-132	Funnel with Coarse Porosity Fixed Plate (10.25")	8"	5"	1/pk	\$629.25
M440-133	Funnel with Coarse Porosity Removable Plate (10.25")	8"	5"	1/pk	\$637.92
M442-721	Replacement Coarse Porous Plate (10.25")			1/pk	\$429.33
M440-140	Funnel with Medium Porosity Fixed Plate (10.25")	8"	5"	1/pk	\$637.92
M440-144	Funnel with Medium Porosity Removable Plate (10.25")	8"	5"	1/pk	\$637.92
M442-723	Replacement Medium Porous Plate (10.25")			1/pk	\$457.42
M440-148	Funnel with Perforated Fixed Plate (10.25")	8"	5"	1/pk	\$637.92
M440-149	Funnel with Perforated Removable Plate (10.25")	8"	5"	1/pk	\$637.92
M442-729	Replacement Perforated Plate (10.25")			1/pk	\$377.83

18" (45.7cm) Funnel Inside Diameter

Part No.	Description	Overall Height	Rim To Plate	Qty	List
M440-134	Funnel with Coarse Porosity Fixed Plate (18")	11.5"	8"	1/pk	\$1561.42
M440-135	Funnel with Coarse Porosity Removable Plate (18")	11.5"	8"	1/pk	\$1561.42
M442-726	Replacement Coarse Porous Plate (18")			1/pk	\$973.33
M440-141	Funnel with Medium Porosity Fixed Plate (18")	11.5"	8"	1/pk	\$1561.42
M440-145	Funnel with Medium Porosity Removable Plate (18")	11.5"	8"	1/pk	\$1561.42
M442-724	Replacement Medium Porous Plate (18")			1/pk	\$804.92
M440-153	Funnel with Perforated Fixed Plate (18")	11.5"	8"	1/pk	\$1349.00
M440-150	Funnel with Perforated Removable Plate (18")	11.5"	8"	1/pk	\$1349.00
M442-730	Replacement Perforated Plate (18")			1/pk	\$452.33

24" (61cm) Funnel Inside Diameter

Part No.	Description	Overall Height	Rim To Plate	Qty	List
M440-136	Funnel with Coarse Porosity Fixed Plate (24")	13"	10.25"	1/pk	\$3245.00
M440-137	Funnel with Coarse Porosity Removable Plate (24")	13"	10.25"	1/pk	\$3245.00
M442-727	Replacement Coarse Porous Plate (24")			1/pk	\$1807.50
M440-142	Funnel with Medium Porosity Fixed Plate (24")	13"	10.25"	1/pk	\$3245.00
M440-146	Funnel with Medium Porosity Removable Plate (24")	13"	10.25"	1/pk	\$3245.00
M442-725	Replacement Medium Porous Plate (24")			1/pk	\$1860.25
M440-154	Funnel with Perforated Fixed Plate (24")	13"	10.25"	1/pk	\$2139.92
M440-151	Funnel with Perforated Removable Plate (24")	13"	10.25"	1/pk	\$2139.92
M442-731	Replacement Perforated Plate (24")			1/pk	\$823.92

36" (91.4cm) Funnel Inside Diameter

Part No.	Description	Overall Height	Rim To Plate	Qty	List
M440-138	Funnel with Coarse Porosity Fixed Plate (36")	14.75"	12"	1/pk	\$5100.58
M440-139	Funnel with Coarse Porosity Removable Plate (36")	14.75"	12"	1/pk	\$5100.58
M442-722	Replacement Coarse Porous Plate (36")			1/pk	\$3631.42
M440-143	Funnel with Medium Porosity Fixed Plate (36")	14.75"	12"	1/pk	\$5100.58
M440-147	Funnel with Medium Porosity Removable Plate (36")	14.75"	12"	1/pk	\$5100.58
M442-728	Replacement Medium Porous Plate (36")			1/pk	\$2799.83
M440-155	Funnel with Perforated Fixed Plate (36")	14.75"	12"	1/pk	\$3814.42
M440-152	Funnel with Perforated Removable Plate (36")	14.75"	12"	1/pk	\$3814.42
M442-732	Replacement Perforated Plate (36")			1/pk	\$1212.50

Porcelain Funnel are also Available.

Micro Funnels

When working with small openings.
 Perfect for micro work, filling burettes, manometers and small bottles.
 Polypropylene plastic.
 Steam autoclavable at 121°C (250°F).



Part No.	Capacity	Height	Stem I.D. x O.D.	Top I.D. x O.D.	Stem Length	Qty	List
M440-178	2.6mL	34.8mm	2.4 x 5.4mm	24 x 8.3mm	15.9mm	12/pk	\$46.88
M440-179	5.2mL	41mm	3.8 x 6.0mm	28 x 31.8mm	19.1mm	12/pk	\$38.40
M440-180	8.1mL	50.5mm	5.3 x 8.0mm	35 x 41.9mm	23.4mm	12/pk	\$35.40
M440-181	15.7mL	58mm	5.5 x 8.0mm	43 x 47mm	25.4mm	12/pk	\$81.75

Mini Funnel PP, 1 Oz. Capacity

Plastic Mini-Funnel has numerous lab and industrial applications. Molded of autoclavable polypropylene.
 Mini-funnel is ideal for micro work, filling small containers & bottles, burettes, etc.

Part No.	Top I.D.	Stem Length	Qty	List
M460-259	37mm	23mm	48/pk	\$85.12



Buchner Funnels – Two Piece

Economical, lightweight and durable.
 Easy-to-clean two-piece, polypropylene plastic Buchner funnels include a molded in perforated plate.
 Lightweight; not top-heavy.
 Steam autoclavable at 121°C (250°F).
 Use with Vac-Ring Filter Seal (M441-353) for quick filter setup.



Height: 10.0cm
 Stem I.D. x O.D.: 0.6 x 0.9cm
 Top I.D. x O.D.: 4.5 x 5.1cm
 Stem Length: 4.6cm
 Plate Diameter: 3.8cm
 Rim to Plate: 2.4cm
 Takes Filter Paper: 42.5mm

Height: 21.9cm
 Stem I.D. x O.D.: 0.6 x 1.0cm
 Top I.D. x O.D.: 5.8 x 6.5cm
 Stem Length: 4.9cm
 Plate Diameter: 5.6cm
 Rim to Plate: 3.0cm
 Takes Filter Paper: 55mm

Part No.	Capacity	Qty	List
M440-123	40mL (1.35oz)	6/pk	\$88.88

Part No.	Capacity	Qty	List
M440-124	75mL (2.54oz)	1/pk	\$24.17

Height: 15.0cm
 Stem I.D. x O.D.: 1.1 x 1.5cm
 Top I.D. x O.D.: 7.4 x 8.6cm
 Stem Length: 6.7cm
 Plate Diameter: 7.1cm
 Rim to Plate: 3.9cm
 Takes Filter Paper: 70mm

Height: 17.8cm
 Stem I.D. x O.D.: 0.6 x 1.5cm
 Top I.D. x O.D.: 9.4 x 10.2cm
 Stem Length: 7.6cm
 Plate Diameter: 9.2cm
 Rim to Plate: 4.7cm
 Takes Filter Paper: 90mm

Part No.	Capacity	Qty	List
M440-125	165mL (5.58oz)	1/pk	\$30.92

Part No.	Capacity	Qty	List
M440-126	315mL (10.65oz)	1/pk	\$40.17

Height: 21.3cm
 Stem I.D. x O.D.: 2.5 x 2.9cm
 Top I.D. x O.D.: 13.0 x 13.4cm
 Stem Length: 9.2cm
 Plate Diameter: 11.9mm
 Rim to Plate: 6.6cm
 Takes Filter Paper: 110mm

Part No.	Capacity	Qty	List
M440-127	875mL (29.6oz)	1/pk	\$118.83

**Ask us about
 Funnel Stands!**



Looking for glass funnels?
 They can be found on pages 183 to 184.



Buchner Funnels – Single Piece

Fast flowing with Fritware® porous plates.

One piece HDPE plastic funnels with sealed-in, polyethylene filter plate of coarse porosity (90-130 microns) offer good retention and fast flow under vacuum.

Can be used with or without filter paper.

For use below 52°C (125°F).

Use with Vac-Ring Filter Seal (M441-353) for quick filter setup.



Height: 12.7cm
 Stem I.D. x O.D.: 0.6 x 0.9cm
 Top I.D. x O.D.: 4 x 4.2cm
 Stem Length: 6.1cm
 Plate Diameter: 3.6cm
 Rim to Plate: 4.1cm

Part No.	Capacity	Qty	List
M440-128	50mL (1.69oz)	1/ea	\$24.23

Height: 14.0cm
 Stem I.D. x O.D.: 0.8 x 1.7cm
 Top I.D. x O.D.: 7.6 x 8.1cm
 Stem Length: 6.0cm
 Plate Diameter: 7.0cm
 Rim to Plate: 5.1cm

Part No.	Capacity	Qty	List
M440-129	150mL (5.07oz)	1/ea	\$28.80

Height: 17.6cm
 Stem I.D. x O.D.: 0.8 x 1.8cm
 Top I.D. x O.D.: 10.8 x 11.3cm
 Stem Length: 7.1cm
 Plate Diameter: 10.4cm
 Rim to Plate: 5.3cm

Part No.	Capacity	Qty	List
M440-130	400mL (13.5oz)	1/ea	\$41.85

Height: 22.7cm
 Stem I.D. x O.D.: 1.7 X 2.4cm
 Top I.D. x O.D.: 12.7 X 13.2cm
 Stem Length: 10.0cm
 Plate Diameter: 12.2cm
 Rim to Plate: 9.4cm

Part No.	Capacity	Qty	List
M440-131	1000mL (33.8oz)	1/ea	\$54.00

Kartell Buchner Funnel, PP

Plastic buchner funnel is robust and lightweight.

Unbreakable and resistant to corrosion and heat.

Two piece construction.

Suitable for foodstuff.

Kartell plastic buchner funnel is molded of polypropylene, these funnels are unbreakable and resistant to corrosion and heat and easily separated for cleaning. Plastic buchner funnel can be used without risk with Erlenmeyer flasks. Optional disks for funnels sold separately. Molded of polypropylene for corrosion resistance, withstands high temperature.

No special flask is required for use with buchner funnel. Light in weight, more stable than glass or porcelain funnels.

Can be taken apart for easy cleaning.

The smallest size fits bottles with opening from 20 to 57mm, medium size from 25 to 75mm, largest size from 30 to 100mm.



Part No.	Fits Paper Size	Holes	Capacity	Stem Length	Qty	List
M461-415	42.5mm	1.2mm	40mL	47mm	12/cs	\$176.41
M461-416	55mm	1.1mm	70mL	57mm	8/cs	\$159.15
M461-417	70mm	2.0mm	180mL	57mm	6/cs	\$138.06
M461-418	90mm	2.5mm	390mL	68mm	4/cs	\$138.97
M461-419	110mm	2.5mm	810mL	92mm	4/cs	\$205.88
M461-420	160mm	2.75mm	2100mL	105mm	4/cs	\$346.44
M461-421	240mm	3.0mm	6000mL	143mm	1/ea	\$336.65

Funnels, Buchner, PP

These polypropylene two-piece funnels are light-weight, easy to clean and autoclavable. The top portion snaps into the lower one, forming a vacuum seal that does not require greasing. The base of the top portion has a perforated filter plate.



Part No.	Capacity	Top O.D.	Stem Length	Filter Paper Size	Qty	List
B724-770	125mL	80mm	60mm	7cm	12/pk	\$90.25
B724-859	300mL	104mm	70mm	9cm	12/pk	\$151.17
B724-771	650mL	136mm	85mm	11cm	12/pk	\$180.80

Separatory Funnels, PP

Separatory Funnels, Plastic, 100mL, 250mL, 500mL, Laboratory Supplies, Plasticware

These pear-shaped polypropylene separating funnels feature excellent clarity and strength and include a leak-proof threaded screw cap. The polypropylene stopcock is fitted with a self-lubricating PTFE plug. Not graduated.



Part No.	Capacity	Top Outside Diameter	Stem Length	Qty	List
B724-835	100mL	55mm	45mm	1/ea	\$34.07
B724-836	250mL	75mm	45mm	1/ea	\$35.74
B724-837	500mL	90mm	45mm	1/ea	\$30.07

Squibb Pear-Shaped Separatory Funnels

Exceptional clarity for phase interface visibility.

Durable, polypropylene plastic translucent separatory funnels are resistant to most chemicals, including hydrofluoric acid. Features a 4mm stopcock plug of non-stick PTFE and screw cap closure.

Steam autoclavable (except stopper) at 121°C (250°F).

Stem length: 40mm with a 9.5mm O.D.



Part No.	Nominal Capacity	Qty/pk	List/pk	Qty/cs	List/cs
M440-195	100mL	1/pk	\$143.58	6/pk	\$861.48
M440-196	250mL	1/pk	\$152.00	4/cs	\$608.00

JARS

Straight-Side Containers, PETE

Transparent straight-side containers of PETE (Polyethylene Terephthalate) with white polypropylene linerless screw closures. Store pastes, samples, powders, specimens etc. in industrial and lab applications.

PETE is durable, shatterproof and has excellent gas barrier properties with H₂O, O₂ and CO₂. These jars may be used below freezing to a maximum of 70°C.



Part No.	Capacity	Diameter	Height w/Closure	Qty	List
M461-816	125mL	73mm	46.4mm	12/pk	\$43.21
M461-817	250mL	73mm	79.5mm	6/pk	\$27.44
M461-818	500mL	93.5mm	86mm	6/pk	\$38.88
M461-819	1000mL	92.4mm	173mm	6/pk	\$67.33

Opaque Containers, PP

Plastic containers are molded of white opaque polypropylene, lightweight containers are not considered leak-proof.

Many laboratory and industrial uses. Supplied with polypropylene screw closures. Maximum temperature PP is 121°C.



Part No.	Capacity	Diameter	Height	Closure	Qty	List
M461-820	7.5mL	28.5mm	30mm	33mm	144/cs	\$133.03
M461-821	15mL	37mm	27mm	43mm	144/cs	\$151.03
M461-822	30mL	38mm	40.5mm	43mm	144/cs	\$188.97
M461-823	60mL	49mm	45mm	53mm	72/cs	\$106.00
M461-824	125mL	65mm	58mm	70mm	72/cs	\$122.15
M461-825	250mL	85mm	65mm	89mm	48/cs	\$152.85
M461-826	500mL	84mm	100mm	89mm	36/cs	\$167.24

Straight-Side Containers, PP

Straight-Side Containers are supplied with white polypropylene linerless screw closures.

Made of translucent, autoclavable polypropylene.

These jars are economical and ideal for storage of lab specimens, supplies or powders.

Many industrial applications. Maximum temperature polypropylene is 121°C.



Part No.	Capacity	Diameter	Height w/Cap	Qty	List
M460-275	30mL (1oz)	43mm	43mm	72/cs	\$154.12
M460-276	60mL (2oz)	53mm	47mm	48/cs	\$111.03
M460-277	120mL (4oz)	70mm	60mm	36/cs	\$131.92
M460-278	250mL (8oz)	89mm	66mm	36/cs	\$169.56
M460-279	500mL (16oz)	89mm	97mm	24/cs	\$170.24
M460-280	950mL (32oz)	120mm	100mm	24/cs	\$252.85
M460-281	1200mL (40oz)	120mm	132mm	24/cs	\$322.74



Straight-Side Containers, PS

Straight-Side Containers are supplied with white polypropylene screw closures, these "glass-clear" polystyrene jars have many uses in the lab and industry. Lightweight and easy to fill. Maximum temperature polystyrene is 70°C.



Part No.	Capacity	Diameter	Height w/Cap	Qty	List
M460-283	60mL	53mm	47mm	48/cs	\$108.47
M460-284	120mL	70mm	60mm	36/cs	\$126.24
M460-282	180mL	70mm	72mm	36/cs	\$144.09
M460-285	240mL	89mm	66mm	36/cs	\$162.65
M460-286	480mL	89mm	97mm	24/cs	\$153.79
M460-287	1000mL	120mm	100mm	24/cs	\$235.47

Screw Cap Jars

White polypropylene.

White polypropylene jars and screw caps in an assortment of sizes are FDA approved and are excellent for storage of liquid or dry stock or for use with samples.

Jars are autoclavable at 121°C (250°F).

Screw caps, with PE foam lining, are not autoclavable.



Part No.	Capacity	Diameter	I.d.	Closure	Height	Qty	List
M440-351	14.8mL	33mm	27.0mm	33mm	37.0mm	12/pk	\$22.00
M440-352	29.6mL	43mm	35.5mm	43mm	37.3mm	12/pk	\$27.50
M440-353	118.0mL	58mm	51.0mm	56mm	66.5mm	12/pk	\$41.92
M440-354	236.6mL	70mm	62.0mm	70mm	86.0mm	12/pk	\$64.08

Polypropylene Jars - Natural

Natural polypropylene jars are translucent and durable. Jars are ideal for storing and collecting specimens and lab supplies. Wide neck and straight sides facilitate easy recovery of contents. Polypropylene offers greater tolerance to high temperatures than HDPE and better contact clarity.



Jar Only

Part No.	Capacity / Volume	Neck Finish	Qty	List
B427-798	1oz (30mL)	43-400	1144/cs	\$141.67
B427-800	2oz (60mL)	53-400	546/pk	\$126.11
B427-802	4oz (120mL)	58-400	432/pk	\$152.04
B427-803	8oz (240mL)	89-400	168/pk	\$114.55
B427-804	8oz (240mL)	70-400	225/pk	\$103.94
B427-806	16oz (480mL)	89-400	112/pk	\$83.76
B427-808	32oz (960mL)	120-400	60/pk	\$89.74

White Polypropylene SturdeeSeal® PE Foam Lined Cap

Part No.	Capacity / Volume	Neck Finish	Qty	List
B425-030	1oz (30mL)	43-400	72/cs	\$51.72
B428-141	1oz (30mL)	43-400	1144/cs	\$242.92
B428-041	2oz (60mL)	53-400	48/cs	\$40.69
B428-040	2oz (60mL)	53-400	546/cs	\$246.91
B428-044	4oz (120mL)	58-400	36/cs	\$40.66
B428-115	4oz (120mL)	58-400	432/cs	\$282.10
B428-047	8oz (240mL)	89-400	36/cs	\$73.21
B428-046	8oz (240mL)	89-400	168/cs	\$264.19
B428-057	16oz (480mL)	89-400	24/cs	\$40.95
B428-176	16oz (480mL)	89-400	112/cs	\$223.39
B428-095	32oz (960mL)	120-400	60/cs	\$150.12



White Polypropylene Unlined Cap

Part No.	Capacity / Volume	Neck Finish	Qty	List
B428-038	1oz (30mL)	43-400	72/cs	\$50.30
B428-076	1oz (30mL)	43-400	644/cs	\$230.91
B428-042	2oz (60mL)	53-400	48/cs	\$36.91
B428-148	2oz (60mL)	53-400	546/cs	\$215.52
B428-045	4oz (120mL)	8-400	36/cs	\$37.89
B428-149	4oz (120mL)	58-400	432/cs	\$249.40
B428-048	8oz (240mL)	89-400	36/cs	\$62.61
B428-150	8oz (240mL)	70-400	225/cs	\$144.50
B428-054	16oz (480mL)	89-400	24/cs	\$50.16
B428-053	16oz (480mL)	89-400	112/cs	\$126.76
B428-055	2oz (960mL)	120-400	24/cs	\$85.92



Plasticware

White Metal Pulp & PE Lined Cap

Part No.	Capacity / Volume	Neck Finish	Qty	List
B428-039	2oz (60mL)	53-400	48/cs	\$54.26
B428-043	4oz (120mL)	58-400	30/cs	\$46.64
B428-049	8oz (240mL)	70-400	30/cs	\$43.06
B428-050	16oz (480mL)	89-400	112/cs	\$240.23



Black Phenolic Pulp/Aluminum Foil Lined Cap

Part No.	Capacity / Volume	Neck Finish	Qty	List
B428-074	8oz (240mL)	89-400	36/cs	\$98.62
B428-073	16oz (480mL)	89-400	24/cs	\$70.90

Polypropylene Jars - White

White polypropylene jars are ideal for solids, powders and cosmetics. Jars are ideal for storing and collecting specimens and lab supplies. Wide neck and straight sides facilitate easy recovery of contents. Polypropylene offers greater tolerance to high temperatures than HDPE and better contact clarity.



Jar Only

Part No.	Capacity / Volume	Neck Finish	Qty	List
B427-799	1oz (30mL)	43-400	980/cs	\$280.26
B427-801	2oz (60mL)	53-400	588/cs	\$200.48
B427-827	4oz (120mL)	58-400	432/cs	\$156.80
B427-805	8oz (240mL)	70-400	336/cs	\$232.82
B427-807	16oz (480mL)	89-400	112/cs	\$82.53
B427-809	32oz (960mL)	120-400	60/cs	\$89.08

White Polypropylene Unlined Cap

Part No.	Capacity / Volume	Neck Finish	Qty	List
B428-135	1oz (30mL)	43-400	72/cs	\$57.55
B428-136	2oz (60mL)	53-400	48/cs	\$39.82
B428-171	2oz (60mL)	53-400	588/cs	\$434.51
B428-137	4oz (120mL)	58-400	36/cs	\$36.97
B428-138	8oz (240mL)	70-400	36/cs	\$58.50
B428-151	8oz (240mL)	70-400	336/cs	\$293.29
B428-139	16oz (480mL)	89-400	24/cs	\$45.99
B428-143	16oz (480mL)	89-400	112/cs	\$131.56
B428-140	32oz (960mL)	120-400	24/cs	\$65.94
B428-144	32oz (960mL)	120-400	60/cs	\$148.89

Polystyrene Jars

Rigid clear polystyrene jars offer glass-like clarity with a smooth surface that is slip-resistant. Jars are ideal for storing and collecting specimens and lab supplies. Wide neck and straight sides facilitate easy recovery of contents.



Jar Only

Part No.	Capacity / Volume	Neck Finish	Qty	List
B427-810	2oz (60mL)	53-400	546/cs	\$173.27
B427-811	4oz (120mL)	58-400	324/cs	\$166.63
B427-812	8oz (240mL)	89-400	168/cs	\$128.68
B427-813	16oz (480mL)	89-400	112/cs	\$134.81
B427-814	32oz (960mL)	120-400	60/cs	\$129.99

White Polypropylene SturdeeSeal® PE Foam Lined Cap

Part No.	Capacity / Volume	Neck Finish	Qty	List
B428-056	2oz (60mL)	53-400	48/cs	\$44.18
B428-057	4oz (120mL)	58-400	36/cs	\$40.95
B428-155	4oz (120mL)	58-400	324/cs	\$314.34
B428-058	8oz (240mL)	89-400	36/cs	\$68.49
B428-059	16oz (480mL)	89-400	24/cs	\$53.97
B428-170	16oz (480mL)	89-400	112/cs	\$258.80



Jar, PP, w/Linerless Cap

Wide mouth design is ideal for large solid samples.
 Polypropylene container safer to use than glass jars.
 Durable container with good chemical resistance.
 White polypropylene screw cap pre-attached to maintain cleanliness.
 Polypropylene container with linerless cap is autoclavable or sterilized using ethylene oxide.



Part No.	Capacity	Closure	Color	Qty	List
G546-436	30mL or 1oz	43-400	White	72/cs	\$129.94
G546-437	60mL or 2oz	53-400	White	48/cs	\$120.97
G546-438	125mL or 4oz	58-400	White	36/cs	\$104.76
G546-439	250mL or 8oz	89-400	White	36/cs	\$175.88
G546-440	500mL or 16oz	89-400	White	24/cs	\$140.58
G546-441	1000mL or 32oz	120-400	White	24/cs	\$249.22

Jar, PP, Nat, Foamed PE Lined Cap

Wide mouth design is ideal for large solid samples.
 Polypropylene container safer to use than glass jars.
 Durable container with good chemical resistance.
 White polypropylene screw cap pre-attached to maintain cleanliness.
 Foamed Polyethylene liner cap.



Part No.	Capacity	Closure	Color	Qty	List
G546-442	30mL or 1oz	43-400	White	72/cs	\$133.16
G546-443	60mL or 2oz	53-400	White	48/cs	\$124.03
G546-444	125mL or 4oz	58-400	White	36/cs	\$107.42
G546-445	250mL or 8oz	89-400	White	36/cs	\$180.31
G546-446	500mL or 16oz	89-400	White	24/cs	\$144.05
G546-447	1000mL or 32oz	120-400	White	24/cs	\$255.43

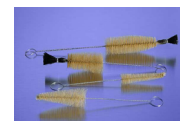
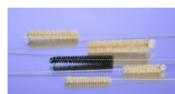
250mL Jar, Polystyrene, Clear, Foamed PE Lined Cap

Clear polystyrene offers clarity of glass and safety of plastic.
 Good resistance to inorganic chemicals.
 Pre-attached white polypropylene screw cap with foamed polyethylene liner.



Part No.	Capacity	Closure	Color	Qty	List
G546-448	30mL or 1oz	43-400	White	72/cs	\$100.31
G546-449	60mL or 2oz	53-400	White	48/cs	\$126.88
G546-450	125mL or 4oz	58-400	White	36/cs	\$117.30
G546-451	250mL or 8oz	89-400	White	36/cs	\$178.46
G546-452	500mL or 16oz	89-400	White	24/cs	\$156.02
G546-453	1000mL or 32oz	120-400	White	24/cs	\$259.58

Make sure you get every corner and inch of your glass or plastic containers clean with the help of our selection of brushes.
 From micro tube brushes to counter top brushes we have you covered!



SAMPLERS

Coliwasa

Coliwasa Sampler

Use Blackburn Coliwasa to take representative samples of hazardous wastes, liquids, slurry-type sludge's and semi-solids from top to bottom of buckets, barrels, tanks or tankers. Also great for Q. A. and process sampling. Samplers comply with EPA regulations and methods.

Each patented, contamination-free Coliwasa (9/16" or 1" dia.) has a 2" stick-out on bottom for ready-fill sampling of viscous liquids and semi-liquids.

Made of translucent, unmodified polypropylene for superior chemical resistance.

Resists acids, alkalis, aromatic and aliphatic hydrocarbons, ketones, aldehydes, esters, oxidizers and glycols.

Break-resistant sampler clamps shut to avoid spillage.

The sampler itself can serve as a sample container for non hazardous samples to eliminate the mess and inconvenience of sample transfer.

Neoprene stoppers have TFE film coating for improved stick resistance.

Teflon® Coupler Set allows you to combine any two of the five 1" I. D. coliwasa type together to increase sampler length.

Purge-Squeegee Kits have a unique inside-outside squeegee attachment that cleans tube while making the extraction.

Meets CFR 40 and SW-846 of EPA Regulations & Standard Methods.



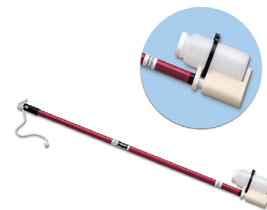
Part No.	Type	Length	Diameter	Capacity	Qty	List
S400-012	Bucket	16"	1"	190mL	1/ea	\$27.38
S400-001	Barrel	39"	1"	460mL	1/ea	\$36.50
S400-002	Barrel	39"	9/16"	130mL	1/ea	\$32.38
S400-005	Tote	45"	1"	530mL	1/ea	CALL
S400-003	Tanker	70"	1"	830mL	10/cs	\$478.80
S400-004	Tanker	70"	9/16"	230mL	1/ea	\$33.25
S400-006	Tanker	88"	1"	1043mL	10/cs	CALL
S400-024	Tanker	120"	1"	1400mL	1/ea	\$67.38

Nasco Sludge Nabber

Iso plastics.

The Nasco Sludge Nabber makes sample collection of liquids fast and easy. It has an adjustable aluminum pole that extends from 4 to 6-1/2 feet (1.22 to 1.99 m), making it easy to reach the liquid to be sampled and carried.

The Sludge Nabber is ideally suited for numerous sampling requirements including chlorine in solution. Other sample bottles from 250 - 1,000mL can be used but a different fastening device such as a cabletie, wire, etc. will be required. Whether testing for chlorine, BOD (biochemical oxygen demand) or SS (suspended solids), the Sludge Nabber's flexibility with holding various bottles and its adjustable length, allows for effortless sampling. Unit comes with a 500mL polyethylene bottle. One-year warranty.



Part No.	Description	Qty	List
B120-064	Adjustable Pole Sampler	1/ea	\$163.75

Nasco Swing Sampler

Iso plastics.

When collecting a sample from a horizontal flowing stream, such as a sewer, the Nasco Swing Sampler is specially designed for this application.

The end of the sampler swings, allowing collection from different angles, including 90°.

The 6-ft. (1.83 m) or 8-ft. (2.44 m) adjustable fiberglass pole extends to 12 ft. (3.66 m) or 24 ft. (7.32 m), providing a long length for any sampling situation.

Unit comes with a 960mL polyethylene bottle and the cover has a vinyl liner for leak-proof protection.

The bottle is attached to a polyurethane holder and is held in place with a plastic snapper ring that has an adjustable locking device. Other types of bottles may be used but a different type of fastener may be required to hold the bottle in place. One-year warranty.



Part No.	Description	Qty	List
B120-087	12ft Swing Sampler	1/ea	\$292.50
B120-111	24ft Swing Sampler	1/ea	\$365.36



Dippers, HDPE

Graduated dipper.

2 pour spouts.

PVC hand grip on 1" diameter HDPE rod.

500mL & 1000mL beaker welded to the rigid handle at a 45° angle.

High density polyethylene dipper for removing samples from large tanks. Made in the USA, these plastic dippers are lightweight but durable.

Available in seven popular sizes. 500mL capacity dippers feature graduation markings of 50mL and 1000mL and is graduated in increments of 100mL. *12-foot size supplied with 2-piece handle for economy in shipping and storage.



Part No.	Handle Length	Capacity	Qty	List
D300-003	1.5'	500mL	1/ea	\$47.59
D300-004	3'	500mL	1/ea	\$59.74
D300-005	6'	500mL	1/ea	\$86.38
D300-006	12'*	500mL	1/ea	\$170.79
D300-000	3'	1000mL	1/ea	\$85.18
D300-001	6'	1000mL	1/ea	\$104.06
D300-002	12'*	1000mL	1/ea	\$174.71

Dippers, PTFE

Totally inert and non-contaminating PTFE dipper sampler. Extendable screw-in shafts have a steel core for rigidity and are fully encapsulated in PTFE.

The basic unit consists of a beaker with a single 24" (600mm) shaft. Replacement shaft available as part M461-660.



Part No.	Capacity	Body Diameter	Shaft Length	Qty	List
M461-656	100mL	54mm	600mm	1/ea	\$143.83
M461-657	250mL	66mm	600mm	1/ea	\$304.44
M461-658	500mL	80mm	600mm	1/ea	\$367.74
M461-659	1000mL	100mm	600mm	1/ea	\$479.53
M461-660	Replacement Handle			1/ea	\$143.82

Long-Handled Dippers

Available in choice of handle lengths.

For easy sampling from tanks, vats, lakes, etc., these high-density polyethylene plastic dippers will not rust or corrode, provide excellent chemical resistance and float, "just in case."

Handles are 2.9cm (1 1/8") in diameter and welded to a rigid sampling bowl at a 45° angle for easier sampling from an elevated position.

Choose from a variety of handle lengths; hook at end for hanging storage.

Hardwood dowel totally encased in the 6 and 12 foot handles adds rigidity and strength.

12 foot handle is available in one piece or two-piece screw-together construction.



NOTE: M440-805 and M440-806 may ship by truck and may be delivered separately from any other items ordered.

1 Piece Handle

Part No.	Bowl Size	Handle Length	Qty	List
M440-799	500mL (16oz)	0.91m (3ft)	1/ea	\$85.05
M440-800	1000mL (32oz)	0.91m (3ft)	1/ea	\$125.00
M440-801	500mL (16oz)	1.8m (6ft)	1/ea	\$124.13
M440-802	1000mL (32oz)	1.8m (6ft)	1/ea	\$145.73
M440-805	500mL (16oz)	3.7m (12ft)	1/ea	\$222.83
M440-806	1000mL (32oz)	3.7m (12ft)	1/ea	\$239.63

2 Piece Handle

Part No.	Bowl Size	Handle Length	Qty	List
M440-803	500mL (16oz)	3.7m (12ft)	1/ea	\$238.95
M440-804	1000mL (32oz)	3.7m (12ft)	1/ea	\$249.08

Sampler / Ladle, PTFE

Sampler-ladle is made from pure PTFE and is supplied with a fixed 6" (150mm) handle.
Totally inert. 10mL capacity.

Part No.	Description	Qty	List
M460-166	Top ID 1", Bottom O.D. 3/4"	4/cs	\$328.50



Adjustable Handle Water Sample Dipper

Handle adjusts for up to 274cm (9 Ft) extended reach.

For taking samples of water, sewage, wastes and effluents from lakes, streams, tanks or ponds, the water sample dipper provides a long reach for otherwise inaccessible spots.

1000mL graduated polypropylene plastic pitcher mounted on an aluminum tube handle.

Handle has 3 parts, a 91cm (3') lower section, a 112cm (44") telescoping section and an additional 91cm (3') upper section.

Connections are made with spring buttons with adjusting steps, 15cm (6") apart.

Minimum handle length is 91cm (3'), maximum length is 274cm (9').

Handle diameter is 2.5cm (1") with 2.2cm (7/8") telescoping tube.

Part No.	Description	Qty	List
M441-210	Adjustable Handle Water Dipper	1/ea	\$252.83



Scoop / Ladle, HDPE

Fabricated in the USA of high density polyethylene, these plastic ladle dippers feature a high-temperature extra heavy duty bowl with securely welded solid handle. Handy for sampling and dispensing corrosive liquids.

Note: 600mL size is graduated and supplied with 2 pour spouts.

Part No.	Capacity	Handle Length	Qty	List
M461-102	50mL	9"	12/cs	\$225.29
M461-099	100mL	9"	12/cs	\$243.29
M461-101	250mL	9"	12/cs	\$265.97
M461-103	600mL	10"	12/cs	\$292.44
M461-100	1000mL	12"	6/cs	\$339.65



Economy Dippers

Replaceable cups for sampling.

For convenient sampling from tanks, vats, streams, ponds, lakes, etc., these economy dippers are lightweight, easy to use and portable.

Thread on 500mL (16oz.) polypropylene cup can be exchanged to reduce cross contamination.

Two pouring spouts on cup allow left or right pouring.

High-density polyethylene plastic handles are strong honeycomb tubes without inserts and are ribbed for a sure grip. Handle end has a hook for hanging storage.

Part No.	Description	Qty	List
M440-807	Dipper with 91cm (3ft) Handle	1/ea	\$78.23
M440-808	Dipper with 183cm (6ft) Handle	1/ea	\$101.93
M440-809	Extra Screw-on Cups 500mL (16oz)	1/ea	\$18.60



Dipper - 16oz. (500mL)

4" (10.2cm) dia. High-density polyethylene dipper for removing samples from large tanks. Lightweight and durable.

12-ft. (3.66 m) handle (two pieces). Has two pour spouts and graduations, PVC grip handle.

Dipper is not autoclavable.

Part No.	Length	Qty	List
B120-192	1 1/2 ft Handle	1/ea	\$94.04
B120-073	3 ft Handle	1/ea	\$113.57
B120-075	12 ft Handle	1/ea	\$323.21



Dipper - 32oz. (1,000mL)

5-3/8" (13.7cm) dia. High-density polyethylene dipper for removing samples from large tanks. Lightweight and durable.

12-ft. (3.66 m) handle (two pieces). Has two pour spouts and graduations, PVC grip handle. Dipper is not autoclavable.

Part No.	Length	Qty	List
B120-076	3 ft Handle	1/ea	\$161.43
B120-077	6 ft Handle	1/ea	\$197.14
B120-078	12 ft Handle	1/ea	\$331.25



Drum Sampler, HDPE

Similar to the Liquid Sampler but specifically designed for easy, effective sampling of 55 gallon drums or vessels with openings as small as 2" ID. The included bottle (M461-237 bottle) easily passes through the opening for quick filling. The handle prevents dropping of sampler into the opening of the drum. All rods are 1 1/4" O.D.



Part No.	Description	Qty	List
M461-117	3' 100mL	1/ea	\$218.06
M461-119	6' 100mL	1/ea	\$268.62
M461-121	8' 100mL	1/ea	\$335.00

Liquid Sampler, HDPE

Manufactured from chemically resistant high density polyethylene, this sampling device is perfect for corrosive environments and for hard to reach places. The included bottle (M461-239 bottle) screws into the end of the handle and is filled via four 5mm diameter ports (2 allowing liquid to enter and 2 allowing air to escape). Excellent for industrial and environmental applications. All rods are 1 1/4" O.D. *2-piece handle for UPS shipment. Please note: 500mL bottle does not fit through standard drum opening.



Part No.	Description	Qty	List
M461-118	3' 500mL	1/ea	\$218.06
M461-120	6' 500mL	1/ea	\$268.62
M461-122	8' 500mL	1/ea	\$335.00

Sample Thief

Take liquid samples at desired depths. This hand controlled tool allows users to take liquid samples at specific depths. Simply place thumb over top hole, insert to desired depth, remove thumb to allow liquid to enter the tube, place thumb back over tube to prevent liquid from moving in or out and remove. Polyethylene plastic sampler has tapered ends with 4.7mm diameter openings. Maximum capacity: approximately 475mL. Other sizes made to order.



Part No.	Length	Diameter	Qty	List
M441-260	105cm (41 1/2")	29mm (1 1/8")	1/ea	\$177.83

The Sludge Judge® II - Large Capacity

Iso plastics. Do NOT use for sampling ethanol or ethanol blended fuel. The Sludge Judge® II is made from a 1-1/4" (3.18cm) outside diameter plastic tubing resulting in double the capacity and a very rigid unit when assembled. Designed for sampling 5% or less solids. It holds 6oz. per foot (178mL per .31 m) and can be assembled according to the requirements of the job. Add or subtract sections as needed and the 1-ft. (.31 m) markers on the tubing will help identify the amount of sludge in the tank. The unit is made up of three 5-ft. (1.53 m) sections (top, extension, bottom) or individual sections can be combined as required. The Sludge Judge® is not autoclavable. One-year warranty.



Part No.	Description	Qty	List
B120-106	Lg Capacity Sludge Sampler	1/ea	\$326.79

The Sludge Judge® Ultra - Super Strong

Iso plastics. Do NOT use for sampling ethanol or ethanol blended fuel. For maximum strength and rigidity - use the Sludge Judge® Ultra. Designed for sampling 5% or less solids and is constructed of extremely strong polycarbonate that is treated with an ultraviolet stabilizer to help reduce deterioration from the sun's harmful rays. The material is very rigid, minimizing bending of the unit when it is full of water or other liquids. Durable in cold temperatures; can withstand heat up to 280°F (138°C) with careful handling. The 3/4" (1.9cm) diameter tubing is marked with blue tape to designate 1-ft. (.31m) measurements on the tubing. Unit is made up of three 5-ft. (1.53m) sections (top, extension, bottom). Individual sections can be combined as required. The Sludge Judge® is not autoclavable. One-year warranty.



Part No.	Description	Qty	List
B120-120	Super Strong Sludge Sampler	1/ea	\$304.82

TUBES

Culture / Test

Sterile Culture Tubes

Our precision manufactured tubes are fitted with our own 2-position cap specifically designed for optimal reliability and containment of your sample. Suitable for a variety of laboratory procedures, these tubes are available in polypropylene and polystyrene. The 2-position cap provides either aerobic or anaerobic sample storage.



12 x 75

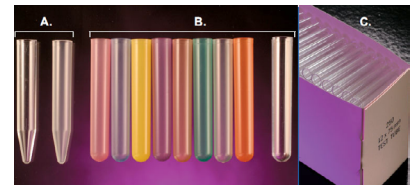
Part No.	Material	Packaging	Qty	List
T100-226	Polystyrene	8 bags of 125	1,000/cs	\$247.40
T100-254	Polystyrene	20 bags of 25	500/cs	\$159.50
T100-227	Polypropylene	8 bags of 125	1,000/cs	\$267.60
T100-276	Polypropylene	20 bags of 25	500/cs	\$145.80

17 x 100

Part No.	Material	Packaging	Qty	List
T100-293	Polystyrene	20 bags of 25	500/cs	\$201.00
T100-294	Polypropylene	20 bags of 25	500/cs	\$194.00

Multi-Purpose Test Tubes 12 x 75mm

Precision-molded from premium-grade plastics and ideal for routine laboratory analysis and procedures. We have applied the lessons learned from over 27 years of manufacturing experience to produce tubes that perform at their highest level. Our tubes are rigorously inspected by our Quality Assurance Department to ensure they surpass our exacting specifications. These tubes are ideal for a wide range of laboratory applications. They are available in several sizes and from three materials, to meet a variety of needs.



- All of the tubes are plastic (polystyrene, polypropylene or polypropylene-copolymer), thus preventing the problem of broken glass.
- Polypropylene is chemically resistant, autoclavable and virtually unbreakable.
- Polystyrene is clear like glass.

Note that caps are ordered separately. These tubes are not available sterile.

A. 12 x 75 5mL Conical Bottom

Part No.	Color	Description	Packaging	Qty	List
T100-172	Clear	PS	8 bags of 250	2000/cs	\$161.60
T100-173	Natural	PP	8 bags of 250	2000/cs	\$143.20

B. 12 x 75 5mL Round Bottom

Part No.	Color	Description	Packaging	Qty	List
T100-194	Clear	PS	8 bags of 250	2000/cs	\$143.55
T100-196	Clear	PS	5 bags of 1,000	5000/cs	\$338.95
T100-200	Natural	PP	8 bags of 250	2000/cs	\$124.50
T100-202	Natural	PP	5 bags of 1,000	5000/cs	\$272.30
T100-203	Amber	PP	8 bags of 250	2000/cs	\$135.40
T100-204	Blue	PP	8 bags of 250	2000/cs	\$134.25
T100-207	Green	PP	8 bags of 250	2000/cs	\$136.65
T100-208	Lavender	PP	8 bags of 250	2000/cs	\$136.60
T100-209	Orange	PP	8 bags of 250	2000/cs	\$137.10
T100-210	Pink	PP	8 bags of 250	2000/cs	\$137.45
T100-212	Yellow	PP	8 bags of 250	2000/cs	\$137.50

C. 12 x 75 5mL Round Bottom

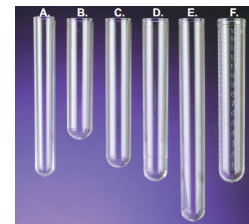
Part No.	Color	Description	Packaging	Qty	List
T100-197	Clear	PS	8 trays of 250	2000/cs	\$205.90
T100-213	Natural	PP	8 trays of 250	2000/cs	\$194.35

Instead of glass, plastic, rubber or cork have you considered foam stoppers?



Multi-Purpose Test Tubes

Round Bottom



13mm Outside Diameter

A. 13x100

Part No.	Color	Description	Packaging	Qty	List
T100-235	Clear	8mL (PS)	8 bags of 250	2000/cs	\$255.30
T100-237	Natural	8mL (PP)	8 bags of 250	2000/cs	\$187.30

16mm Outside Diameter

B. 16x75

Part No.	Color	Description	Packaging	Qty	List
T100-175	Clear	11mL (PS)	2 bags of 500	1000/cs	\$139.10
T100-176	Natural	11mL (PP)	2 bags of 500	1000/cs	\$36.50

C. 16x92

Part No.	Color	Description	Packaging	Qty	List
T100-177	Natural	13mL (PP)	2 bags of 500	1000/cs	\$110.60

D. 16x100

Part No.	Color	Description	Packaging	Qty	List
T100-266	Clear	14mL (PS)	2 bags of 500	1000/cs	\$139.20
T100-268	Natural	14mL (PP)	2 bags of 500	1000/cs	\$116.15

E. 16x125

Part No.	Color	Description	Packaging	Qty	List
T100-287	Clear	17mL (PS)	4 bags of 250	1000/cs	\$191.90
T100-288	Natural	17mL (PP)	4 bags of 250	1000/cs	\$180.00

17mm Outside Diameter

F. 17x100

Part No.	Color	Description	Packaging	Qty	List
T100-285	Clear	16mL (PS)	2 bags of 500	1000/cs	\$152.10
T100-286	Natural	16mL (PP-CO)	2 bags of 500	1000/cs	\$138.95

* 17x150

Part No.	Color	Description	Packaging	Qty	List
T100-083	Clear	20mL (PS)	2 bags of 250	500/cs	\$133.05
T100-084	Natural	20mL (PP)	2 bags of 250	500/cs	\$111.75

12mm Outside Diameter

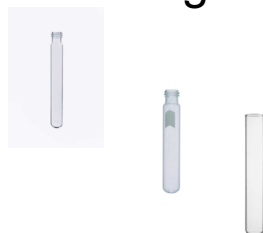
*12x55

Part No.	Color	Description	Packaging	Qty	List
T100-264	Clear	3mL (PS)	4 bags of 500	2000/cs	\$123.05
T100-265	Natural	3mL (PP)	4 bags of 500	2000/cs	\$114.35

* not pictured

Forget to stock up on glass culture tubes?

See pages 162 to 168



Need a new rack?

See page 165



Test Tube & Vial Closures

Hollow Top Plug Caps (LDPE)

Part No.	Color	Size	Qty	List
T100-218	Blue	12mm	1000/cs	\$34.05
T100-219	Black	12mm	1000/cs	\$34.10
T100-220	Green	12mm	1000/cs	\$34.10
T100-221	Lavender	12mm	1000/cs	\$34.10
T100-222	Orange	12mm	1000/cs	\$34.10
T100-223	Red	12mm	1000/cs	\$34.05
T100-216	White	12mm	1000/cs	\$33.05
T100-224	Yellow	12mm	1000/cs	\$34.10
T100-217	Assorted	12mm	1000/cs	\$47.15
T100-248	Blue	13mm	1000/cs	\$54.20
T100-249	Green	13mm	1000/cs	\$54.20
T100-250	Lavender	13mm	1000/cs	\$54.20
T100-251	Orange	13mm	1000/cs	\$54.20
T100-252	Red	13mm	1000/cs	\$54.15
T100-246	White	13mm	1000/cs	\$54.15
T100-253	Yellow	13mm	1000/cs	\$54.20
T100-247	Assorted	13mm	1000/cs	\$58.55
T100-270	Blue	16mm	1000/cs	\$60.25
T100-271	Green	16mm	1000/cs	\$60.25
T100-272	Lavender	16mm	1000/cs	\$60.30
T100-273	Orange	16mm	1000/cs	\$60.30
T100-274	Red	16mm	1000/cs	\$60.25
T100-269	White	16mm	1000/cs	\$60.25
T100-275	Yellow	16mm	1000/cs	\$60.25
T100-290	Blue	17mm	1000/cs	\$60.20
T100-291	Red	17mm	1000/cs	\$60.35
T100-289	White	17mm	1000/cs	\$59.10



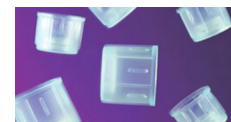
Hollow Bottom Plug Caps (LDPE)

Part No.	Color	Size	Qty	List
T100-279	Blue	16mm	1000/cs	\$58.15
T100-280	Green	16mm	1000/cs	\$58.45
T100-281	Lavender	16mm	1000/cs	\$58.45
T100-282	Orange	16mm	1000/cs	\$58.45
T100-283	Red	16mm	1000/cs	\$57.65
T100-278	White	16mm	1000/cs	\$57.50
T100-284	Yellow	16mm	1000/cs	\$57.35



2-Position Caps (LDPE)

Part No.	Color	Size	Qty	List
T100-225	Natural	12mm	1000/cs	\$40.55
T100-292	Natural	17mm	1000/cs	\$75.15



Cap Fit Chart:

Caps T100 Series

Tubes	-216	-246	-269	-289	-278	C200-206	-185	-184	-225	-292	-228
-172/-173	X					X	X		X		X
-194/-197/-200/-213	X					X	X		X		X
-235/-237		X				X	X				
-175/-176			X			X		X			
-177			X		X	X		X			
-264/-265	X					X	X		X		X
-266/-268			X			X		X			
-287/-288			X			X		X			
-285/-286				X						X	
-255/-256			X		X	X		X			
-277			X			X		X			
-083/-084			X					X			



Disposable Culture Tubes - Non Sterile

Made of either polystyrene or polypropylene.

Ideal for use in bacteriology, RIA, coagulation and other routine laboratory procedures. Simport® uses no mold release agents that could cause errors and interferences in RIA tests. Precision molding with virgin thermoplastics ensures that our tubes are uniform in size and shape as well as being chemically clean and ready to use.



The polypropylene tubes are translucent and will withstand over 3000g during centrifugation. They will also accept most common acids, solvents and alkalies at room temperature. They are almost unbreakable and can be sterilized at 120° C.

Polystyrene tubes are transparent and will withstand centrifugation speeds up to 1400g. Clear plastic guarantees no danger of glass activation during testing. Polystyrene will tolerate aqueous solutions, mild bases and weak acids, but not organic solvents, aromatic or chlorinated hydrocarbons and cannot be autoclaved.

The T240-473 12mm x 75mm tubes are made with a specially formulated polypropylene providing a low surface tension to obtain optimum sample yield. No lubricants have to be added, thereby eliminating the danger of sample contamination.

POLYPROPYLENE

12 x 75mm tubes

Part No.	Vol.	Color	Qty/cs	List/cs
T240-468	5mL	Natural	1000/cs	\$53.88
T240-469	5mL	Amber	1000/cs	\$53.88
T240-470	5mL	Blue	1000/cs	\$53.88
T240-472	5mL	Green	1000/cs	\$53.88
T240-474	5mL	Orange	1000/cs	\$53.88
T240-476	5mL	Yellow	1000/cs	\$53.88

12 x 75mm with 2-Position Polyethylene Snap Cap

Part No.	Vol.	Color	Qty	List
T240-471	5mL	Natural	1000/cs	\$150.85

12 x 75mm with Low Surface Tension

Part No.	Vol.	Color	Qty	List
T240-473	5mL	Natural	1000/cs	\$53.85

13 x 100mm and 17 x 100mm Tubes

Part No.	Dim.	Vol.	Color	Qty	List
T240-484	13 x 100mm	7.2mL	Natural	1000/cs	\$82.13
T240-485	13 x 100mm	8mL	Natural	1000/cs	\$82.13
T240-488	16 x 100mm	12mL	Natural	1000/cs	\$125.28
T240-466	17 x 95mm	14mL	Natural	1000/cs	\$122.43

POLYSTYRENE

12 x 75mm tubes

Part No.	Vol.	Color	Qty/cs	List/cs
T240-481	5mL	Natural	1000/cs	\$45.50
T240-477	5mL	Blue	1000/cs	\$53.88
T240-479	5mL	Green	1000/cs	\$53.88
T240-480	5mL	Orange	1000/cs	\$53.88
T240-482	5mL	Yellow	1000/cs	\$53.88

12 x 75mm with 2-position Polyethylene Snap Cap

Part No.	Vol.	Color	Qty	List
T240-478	5mL	Natural	1000/cs	\$150.85

13 x 100mm to 17 x 100mm Tubes

Part No.	Dim.	Vol.	Color	Qty	List
T240-483	13 x 100mm	7.2mL	Natural	1000/cs	\$82.13
T240-486	13 x 100mm	8mL	Natural	1000/cs	\$82.13
T240-487	16 x 100mm	12mL	Natural	1000/cs	\$125.28
T240-465	17 x 95mm	14mL	Natural	1000/cs	\$122.43

Glass Tubes can be found on pages 162-168.

Cultubes™ Sterile Culture Tubes

Made of polystyrene or polypropylene.

These disposable sterile tubes can be used for most routine laboratory procedures. They are biologically inert and exempt from mold release agents. Precision molding with virgin thermoplastics ensures that our tubes will be uniform in size and shape. High resistance to breakage reduces danger in handling infectious or other potentially harmful cultures.

Transparent polystyrene tubes will withstand moderate centrifugation speeds (1400g) and temperatures to 70°C. Translucent polypropylene tubes can be centrifuged at higher speeds (3000g) and resist temperatures from -190 °C to 120 °C.

Tubes are supplied with either a 2-position ribbed polyethylene cap (which can be left loose for aerobic work or sealed for anaerobic cultures) or without caps for general purpose work.



5mL 12 x 75mm

Part No.	Material	Cap	Qty	List
T240-579	Polystyrene	With Cap	500/cs	\$106.73
T240-581	Polystyrene	With Cap	1000/cs	\$160.35
T240-582	Polystyrene	Without Cap	1000/cs	\$114.08
T240-580	Polypropylene	With Cap	500/cs	\$106.73
T240-583	Polypropylene	Without Cap	1000/cs	\$114.08

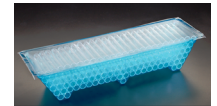
14mL 17 x 95mm

Part No.	Material	Description	Qty	List
T240-584	Polystyrene	With Cap	500/cs	\$142.03
T240-586	Polystyrene	With Cap	1000/cs	\$235.98
T240-587	Polystyrene	Without Cap	1000/cs	\$179.18
T240-585	Polypropylene	With Cap	500/cs	\$142.03
T240-588	Polypropylene	Without Cap	1000/cs	\$142.03

Disposable Culture Tubes - Non Sterile

Made of either polystyrene or polypropylene.

These natural color 12 x 75mm tubes are identical to T240-481 & T240-468 but are neatly packaged with the same orientation in boxes of 125.



Part No.	Material	Vol	Color	Qty	List
T240-481	Polystyrene	5mL	Natural	1000/cs	\$45.50
T240-475	Polypropylene	5mL	Natural	1000/cs	\$91.83

Cultubes™ Sterile Culture Tubes

Made of either polystyrene or polypropylene.

For users who prefer a more compact packaging with tubes oriented horizontally. Tubes are placed in a convenient space saving plastic tray. State-of-the-art packaging keeps your tubes neatly aligned for easing manipulation.

T240-540, T240-541, T240-548 and T240-549 are all individually wrapped.



5mL 12 x 75mm

Part No.	Material	Description	Qty	List
T240-540	Polystyrene	With Cap	500/cs	\$177.63
T240-542	Polystyrene	With Cap	500/cs	\$129.45
T240-544	Polystyrene	With Cap	1000/cs	\$200.35
T240-545	Polystyrene	With Cap	500/cs	\$108.63
T240-546	Polystyrene	Whitout Cap	1000/cs	\$141.35
T240-541	Polypropylene	With Cap	500/cs	\$177.63
T240-543	Polypropylene	With Cap	500/cs	\$129.45
T240-547	Polypropylene	Without Cap	1000/cs	\$141.35

14mL 17 x 95mm

Part No.	Material	Description	Qty	List
T240-548	Polystyrene	With Cap	500/cs	\$231.63
T240-550	Polystyrene	With Cap	500/cs	\$170.33
T240-552	Polystyrene	With Cap	1000/cs	\$280.93
T240-553	Polystyrene	With Cap	500/cs	\$141.35
T240-554	Polystyrene	Whitout Cap	1000/cs	\$195.53
T240-549	Polypropylene	With Cap	500/cs	\$231.63
T240-551	Polypropylene	With Cap	500/cs	\$170.33
T240-555	Polypropylene	Without Cap	1000/cs	\$195.53



Culture Tubes 13 x 100mm with Screw Cap

Tube made of polystyrene / Cap made of polyethylene.

These 8mL screw cap tubes are available either sterile or non sterile. A special tamper evident cap is offered for applications needing the utmost security where sample integrity is of high importance. Tubes are made of optically clear polystyrene and can be centrifuged up to 3000 x g. These are not treated for cell culture. The sterile ones are sterilized by gamma radiation and are non pyrogenic.



Part No.	Sterile	Temper Evident	Qty/cs	List/cs
T240-589	No	No	1000/cs	\$329.25
T240-590	Yes	No	1000/cs	\$365.83
T240-591	No	Yes	1000/cs	\$329.25

Chemware® PFA Test Tubes

Made from fluoropolymer PFA resin. Low metal ion content. Inert.

These unbreakable test tubes are excellent for trace metal analysis. They are inert, non-contaminating and transparent for easy viewing of contents. They withstand temperature extremes. Can be sterilized repeatedly. Available with and without caps in sizes ranging from 5mL to 60mL.



With Caps

Part No.	Volume	I.D. x O.D. x L	Qty	List
P440-449	5mL	8 x 10 x 132mm	1/ea	\$95.51
P440-463	10mL	10 x 12 x 152mm	1/ea	\$104.34
P440-450	15mL	14 x 16 x 162mm	1/ea	\$121.97
P440-464	20mL	14 x 16 x 175mm	1/ea	\$154.94
P440-465	25mL	16 x 19 x 185mm	1/ea	\$165.60
P440-466	50mL	19 x 22 x 235mm	1/ea	\$242.66
P440-467	60mL	19 x 22 x 245mm	1/ea	\$268.06

Without Caps

Part No.	Volume	I.D. x O.D. x L	Qty	List
P440-468	5mL	8 x 10 x 120mm	1/ea	\$52.60
P440-469	15mL	14 x 16 x 150mm	1/ea	\$73.00
P440-470	25mL	16 x 19 x 170mm	1/ea	\$109.17
P440-471	50mL	19 x 22 x 220mm	1/ea	\$169.54
P440-472	60mL	19 x 22 x 130mm	1/ea	\$194.91

Be sure to grab up some cleaning supplies!
We have a variety of detergents on pages 384-385



Need a place to dry your freshly cleaned supplies?
See page 406 for some of our options!



Centrifuge

Centrifuge Tubes - 15mL - Screw Cap

	15mL Tube	
	(Screw Cap)	
Tube Material	PP-CO	PS
Cap Material	HDPE	
Size*(Length X Dia.)	120 x 22mm	
Max. Force (RCF)**	6,400	1,800
Min. Temp.***	-40°C	20°C
Max. Temp.***	120°C	70°C

* Dimensions are measured with cap intact. Diameter measurement is the OD taken at the widest part of the cap.

** Centrifugation g-force (RCF) is based on single use with tubes properly fitted to centrifuge.

***Temperature limits are for the combined tube and cap materials.



15mL Screw Caps

Part No.	Description	Qty	List
T100-029	Blue Cap (15mL)	500/cs	\$59.15
T100-030	Natural Cap (15mL)	500/cs	\$59.15

Polystyrene

Part No.	Description	Caps	Packaging	Qty	List
T100-015	Molded-in Graduations-Sterile	Attached	10 Trays of 50	500/pk	\$284.60
T100-016	Printed-on Graduations-Sterile	Attached	10 Trays of 50	500/pk	\$277.75
T100-019	Molded-in Graduations-Sterile	Attached	20 Bags of 25	500/pk	\$215.35
T100-020	Printed-on Graduations-Sterile	Attached	10 Trays of 50	500/pk	\$225.05
T100-023	Molded-in Graduations-W/Caps	Separate Bag	1 Bag of 500	500/pk	\$155.65
T100-024	Printed-on Graduations-W/Caps	Separate Bag	1 Bag of 500	500/pk	\$179.35

Co-Polymer

Part No.	Description	Caps	Packaging	Qty	List
T100-017	Molded-in Graduations-Sterile	Attached	10 Trays of 50	500/pk	\$260.50
T100-018	Printed-on Graduations-Sterile	Attached	10 Trays of 50	500/pk	\$253.70
T100-021	Molded-in Graduations-Sterile	Attached	20 Bags of 25	500/pk	\$180.00
T100-022	Printed-on Graduations-Sterile	Attached	10 Trays of 50	500/pk	\$212.85
T100-025	Molded-in Graduations-W/Caps	Separate Bag	1 Bag of 500	500/pk	\$138.10
T100-027	Printed-on Graduations-W/Caps	Separate Bag	1 Bag of 500	500/pk	\$193.00

Centrifuge Tubes - 50mL

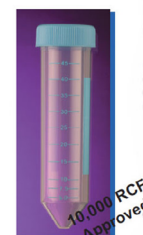
These conical centrifuge tubes are designed for the demanding and stressful conditions encountered in today's laboratories. These are rated at a 10,000 RCF and feature printed blue silk-screen graduations for better visibility with a large writing patch which allows for easy sample identification.

	50mL Tube
	(Screw Cap)
Tube Material	PP-CO
Cap Material	HDPE
Size*(Length x Dia.)	117 x 34mm
Max. Force (RCF)**	10,000
Min. Temp.***	-40°C
Max. Temp.***	120°C

* Dimensions are measured with cap intact. Diameter measurement is the OD taken at the widest part of the cap.

** Centrifugation g-force (RCF) is based on single use with tubes properly fitted to centrifuge.

***Temperature limits are for the combined tube and cap materials.



50mL Screw Caps

Part No.	Description	Qty	List
T100-046	Blue Cap (50mL)	500/pk	\$79.35
T100-047	Natural Cap (50mL)	500/pk	\$225.05



Part No.	Description	Caps	Packaging	Qty	List
T100-034	Molded-in Graduations-Sterile	Attached	20 Trays of 25	500/pk	\$385.05
T100-035	Printed-on Graduations-Sterile	Attached	20 Trays of 25	500/pk	\$425.05
T100-036	Molded-in Graduations-W/Cap	Separate	1 Bag of 500	500/pk	\$212.10
T100-038	Printed-on Graduations-W/Cap	Separate	1 Bag of 500	500/pk	\$246.25
T100-037	Molded-in Graduations-Natural Cap	Separate	1 Bag of 500	500/pk	\$209.10
T100-039	Molded-in Graduations	No Cap	1 Bag of 500	500/pk	\$173.30
T100-040	Molded-in Graduations-Sterile	Attached	20 Trays of 25	500/pk	\$292.65
T100-041	Printed-on Graduations-Sterile	Attached	20 Trays of 25	500/pk	\$326.65
T100-042	Molded-in Graduations	Attached	20 Trays of 25	500/pk	\$327.60
T100-043	Printed-on Graduations	Attached	20 Trays of 25	500/pk	\$426.60
T100-044	Molded-in Graduations	Attached	20 Trays of 25	500/pk	\$245.00
T100-045	Printed-on Graduations	Attached	20 Trays of 25	500/pk	\$263.60



Centrifuge Tubes - 15mL Plug Cap



15mL Tube		
(Plug Cap)		
Tube Material	PP	PS
Cap Material	LDPE	
Size* (Length x Dia.)	126 x 20mm	
Max. Force (RCF)**	6,000	1,500
Min. Temp.***	0°C	20°C
Max. Temp.***	80°C	70°C

* Dimensions are measured with cap intact. Diameter measurement is the OD taken at the widest part of the cap.
 ** Centrifugation g-force (RCF) is based on single use with tubes properly fitted to centrifuge.
 ***Temperature limits are for the combined tube and cap materials.

15mL Plug Cap - Blue

Part No.	Material	Qty	List
T100-135...	Low-Density Polyethylene.....	1000/cs	\$69.15

Polystyrene (caps sold separately)

Part No.	Description	Packaging	Qty	List
T100-121	Molded-in Graduations	2 Bags of 250	500/cs	\$103.95
T100-122	Molded-in Graduations	4 Bags of 250	1000/cs	\$170.65
T100-123	Molded-in Graduations	10 Trays of 50	500/cs	\$197.65

Polypropylene (caps sold separately)

Part No.	Description	Packaging	Qty	List
T100-124	Molded-in Graduations	2 Bags of 250	500/cs	\$110.10
T100-125	Molded-in Graduations	4 Bags of 250	1000/cs	\$172.10

15mL Centrifuge Tubes

Made of polystyrene and polypropylene.

Suitable for general centrifugation, urinalysis procedures and serum separation. These conical bottom tubes are chemically clean and metal free, ready to use and uniform in size and shape, measuring 17 x 120mm.

Graduations are at 0.25, 0.5, 1.0, 2.5, 5, 10, 12 and 15mL. Polystyrene tubes resist a centrifuge speed of 1200g while polypropylene tubes resist speeds of up to 3000g.



Part No.	Material	Size	Qty	List
T240-572	Polystyrene	17 x 120mm	1000/cs	\$160.20
T240-573	Polystyrene	17 x 120mm	1000/cs	\$129.28
T240-574	Polypropylene	17 x 120mm	1000/cs	\$129.28

50mL Centrifuge Tubes

Tubes made of either polystyrene or polypropylene.

These centrifuge tubes are also useful for collecting and transporting biological specimens. Leakproof characteristics are ensured by a flat top plastic screw cap with an inner sealing lip. Tubes are made of translucent polypropylene or optically clear polystyrene with molded graduations from 2.5 to 50mL.

Polypropylene tubes can be autoclaved and will resist temperatures up to 121 °C; they will also resist acids, solvents and alkalis at room temperature.

They withstand centrifugation speeds of 3000g. Polystyrene tubes can tolerate aqueous solutions of mild bases or weak acids, but not organic solvents, aromatic or chlorinated hydrocarbons and they cannot be autoclaved. They withstand centrifugation speeds up to 1000g. Tubes are available in bags or in polypropylene racks for better protection during transport, storage and for convenient laboratory use. Racks can hold up to 25 tubes. Tubes are supplied sterile with green caps or non sterile with yellow caps.

External Diameter: 29mm. Height: 118mm.



Part No.	Description	Material	Cap Color	Packaging	Qty	List
T240-592	Sterile	Polystyrene	Green	25/Rack	500/cs	\$245.55
T240-593	Sterile	Polypropylene	Green	25/Rack	500/cs	\$245.55
T240-594	Sterile	Polypropylene	Green	25/Bags	500/cs	\$268.78
T240-595	Non Sterile	Polypropylene	Yellow	25/Rack	500/cs	\$268.78
T240-596	Non Sterile	Polystyrene	Yellow	Bulk	500/cs	\$181.25
T240-597	Non Sterile	Polypropylene	Yellow	Bulk	500/cs	\$144.80

MicroCentrifuge

Snap Cap Microcentrifuge Tubes

Note: Polypropylene is not recommended for use with Phenol Chloroform.

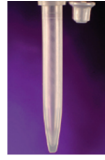
Low temperature storage, multiple spin cycles or organic solvents can affect maximum force.

Run a test before using.

* Assorted colors are randomly mixed Natural, Blue, Green, Lavender, Orange, Pink and Yellow tubes in each bag.

400uL Snap Cap Tubes

Max. Force (RCF): 12,000
 Brittleness Temp.: -100°C
 Max. Temp: 80°C
 Material: LDPE
 Max. Volume: 0.4mL



Part No.	Color	Qty	List
T100-085	Natural	1000/cs	\$67.05
T100-087	Blue	1000/cs	\$67.05
T100-088	Green	1000/cs	\$67.05
T100-089	Lavender	1000/cs	\$67.05
T100-090	Orange	1000/cs	\$67.05
T100-091	Pink	1000/cs	\$67.05
T100-092	Yellow	1000/cs	\$67.05
T100-086	Amber	1000/cs	\$66.50

0.5mL Snap Cap Tubes

Max. Force (RCF): 18,000
 Brittleness Temp.: 0°C
 Max. Temp: 135°C
 Material: PP
 Max. Volume: 0.65mL



Part No.	Color	Qty	List
T100-093	Natural	1000/cs	\$52.95
T100-096	Blue	1000/cs	\$53.00
T100-097	Green	1000/cs	\$53.00
T100-098	Lavender	1000/cs	\$52.95
T100-099	Orange	1000/cs	\$53.00
T100-100	Pink	1000/cs	\$53.00
T100-101	Yellow	1000/cs	\$53.00
T100-094	Amber	1000/cs	\$53.00
T100-095	Assorted	1000/cs	\$61.35

1.5mL Snap Cap Tubes

Max. Force (RCF): 30,000
 Brittleness Temp.: 0°C
 Max. Temp: 135°C
 Material: PP
 Max. Volume: 1.75mL



Part No.	Color	Qty	List
T100-102	Natural	1000/cs	\$63.15
T100-105	Blue	1000/cs	\$64.80
T100-106	Green	1000/cs	\$64.75
T100-107	Lavender	1000/cs	\$64.70
T100-108	Orange	1000/cs	\$64.15
T100-109	Pink	1000/cs	\$64.15
T100-110	Yellow	1000/cs	\$64.85
T100-103	Amber	1000/cs	\$64.70
T100-104	Assorted	1000/cs	\$71.50

1.5mL Snap Cap Tubes

Max. Force (RCF): 18,000
 Brittleness Temp.: 0°C
 Max. Temp: 135°C
 Material: PP
 Max. Volume: 1.75mL



Part No.	Color	Qty	List
T100-111	Natural	1000/cs	\$64.15
T100-114	Blue	1000/cs	\$64.25
T100-115	Green	1000/cs	\$64.20
T100-116	Lavender	1000/cs	\$64.15
T100-117	Orange	1000/cs	\$64.15
T100-118	Pink	1000/cs	\$64.30
T100-119	Yellow	1000/cs	\$64.30
T100-112	Amber	1000/cs	\$64.15
T100-113	Assorted	1000/cs	\$70.95
T100-120	Natural	1000/cs	\$76.85

2.0mL Snap Cap Tubes

Max. Force (RCF): 18,000
 Brittleness Temp.: 0°C
 Max. Temp: 135°C
 Material: PP
 Max. Volume: 2.0mL



Part No.	Color	Qty	List
T100-126	Natural	1000/cs	\$57.20
T100-128	Blue	1000/cs	\$58.85
T100-129	Green	1000/cs	\$58.25
T100-130	Lavender	1000/cs	\$58.25
T100-131	Orange	1000/cs	\$58.25
T100-132	Pink	1000/cs	\$58.85
T100-133	Yellow	1000/cs	\$58.25
T100-127	Amber	1000/cs	\$58.75
T100-134	Natural	1000/cs	\$67.25

myFuge™ Mini Centrifuge



- Clik-N-Lok™ INSTANT rotor attachment
- Eight position microtube rotor
- Storage compartment for PCR rotor & 0.5ml adapters
- Near silent operation
- Decelerates in just one second
- Four position PCR strip rotor



Microcentrifuge Tubes - 0.6 & 1.5mL

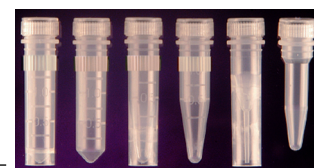
These 0.6mL and 1.5mL graduated rugged tubes are made of laboratory grade polypropylene suitable to withstand the stress of high speed centrifugation up to 20,000g. The one-piece construction incorporates a snug fitting and reliable attached cap even with prolonged boiling. The bottom is reinforced for added protection against leakage. Maximum clarity for visual sample inspection. A frosted writing surface on closure and side of tube allows for easy and convenient sample identification. Highly polished interior ensures low liquid retention. Available in 4 colors. Packaged in tamperproof resealable safety-lock bags.



Part No.	Color	Volume	Qty/pk	List/pk	Qty/cs	List/cs
T240-178	Natural	0.6mL	n/a	n/a	5000/cs	\$206.40
T240-175*	Blue	0.6mL	n/a	n/a	5000/cs	\$206.40
T240-176*	Green	0.6mL	n/a	n/a	5000/cs	\$206.40
T240-179*	Yellow	0.6mL	n/a	n/a	5000/cs	\$206.40
T240-204	Natural	1.5mL	n/a	n/a	5000/cs	\$181.25
T240-201	Blue	1.5mL	1000/pk	\$30.34	5000/cs	\$151.70
T240-202	Green	1.5mL	1000/pk	\$30.34	5000/cs	\$151.70
T240-205	Yellow	1.5mL	1000/pk	\$30.34	5000/cs	\$151.70
T240-200	Amber	1.5mL	n/a	n/a	5000/cs	\$181.25

Screw Cap Graduated Micro-Centrifuge Tubes

Max. Force (RCF): 18,000 Brittleness Temp.: -40°C
 Max. Temp.: 121°C Material: PP-CO



Conical Bottom

Part No.	Description	Max. Volume	Qty	List
T100-052	0.5mL Nat. Tube w/Nat. O-Ring Cap Sterile	0.65mL	500/cs	\$169.25
T100-053	0.5mL Natural Tube	0.65mL	1000/cs	\$76.00
T100-056	1.5mL Nat. Tube w/Nat. O-Ring Cap Sterile	1.75mL	500/cs	\$169.25
T100-057	1.5mL Natural Tube	1.75mL	1000/cs	\$75.20
T100-060	2.0mL Nat. Tube w/Nat. O-Ring Cap Sterile	2.0mL	500/cs	\$169.50
T100-061	2.0mL Natural Tube	2.0mL	1000/cs	\$75.40

Skirted Bottom

Part No.	Description	Max. Volume	Qty	List
T100-054	0.5mL Nat. Tube w/Nat. O-Ring Cap Sterile	0.65mL	500/cs	\$169.55
T100-055	0.5mL Natural Tube	0.65mL	1000/cs	\$75.50
T100-058	1.5mL Nat. Tube w/Nat. O-Ring Cap Sterile	1.75mL	500/cs	\$169.60
T100-059	1.5mL Natural Tube	1.75mL	1000/cs	\$74.85
T100-062	2.0mL Nat. Tube w/Nat. O-Ring Cap Sterile	2.0mL	500/cs	\$165.35
T100-063	2.0mL Natural Tube	2.0mL	1000/cs	\$74.55

1.5mL Microcentrifuge Tubes

BRAND microcentrifuge tubes fit most common rotors and may be spun up to 30,000 RCF (g) (10,000 x g for 0.5mL; 20,000 x g for 1.5mL; 30,000 x g for 1.5mL and 2.0mL with lid closure at 20°C for 20 min). Manufactured from virgin polypropylene, these highly translucent tubes are free from flash, air bubbles and streaks. Caps form a tight, leak-free seal that is easy to open, even when wearing gloves and are flat with consistent thickness for trouble-free piercing. Tubes have uniform wall thickness for consistent, repeatable results.

Subdivisions for approximate volume determination.

Autoclavable at 120°C (2bar), according to DIN EN 285.

Microcentrifuge tubes with lid closure are certified endotoxin, DNA-, DNase- and RNase-free.

BIO-CERT® sterile, endotoxin-, RNase-, ATP- and DNA-free microcentrifuge tubes are available for critical applications. Colored tubes simplify sample identification.



BRAND Microcentrifuge Tubes, Non-Sterile, 1.5mL

Part No.	Lid Style	Color	OD x H	Qty	List
T710-195	Standard	Clear	11 x 41mm	500/pk	\$20.70
T710-199	Standard	Yellow	11 x 41mm	500/pk	\$20.70
T710-200	Standard	Blue	11 x 41mm	500/pk	\$20.70
T710-201	Standard	Green	11 x 41mm	500/pk	\$20.70
T710-202	Standard	Orange	11 x 41mm	500/pk	\$20.70
T710-203	Standard	Amber	11 x 41mm	500/pk	\$20.70
T710-205	Lid Closure	Clear	11 x 39mm	1000/pk	\$114.00
T710-196	No Lid	Clear	11 x 39.5mm	2000/pk	\$147.00

BIO-CERT® RNase-, DNase, DNA-free Microcentrifuge Tubes, 1.5mL

Part No.	Lid Style	Color	OD x H	Qty	List
T710-194	Standard	Clear	11 x 39.5mm	450/pk	\$191.25

VIALS

Capitol Vial Flip-Top Vials with Lock Seal

Thermo Scientific™ capitol vial flip-top vials with lock seal are similar to standard flip-top vials except they contain an additional lock-seal tab.

100% FDA approved food grade polypropylene.

Sterile, airtight and leak-resistant construction.

Permanent hinged lid allows easy one-handed opening of vial.

Shoulderless, linerless containers.

Available in capacities ranging from 1.5 to 10oz. (44.3 to 296mL).



Part No.	Description	Qty	List
V745-202	1.5oz.; Natural	600/cs	\$224.22
V745-032	1.5oz.; Black	600/cs	\$235.25
V745-033	1.5oz.; Green	600/cs	\$235.25
V745-036	2oz.; Red	600/cs	\$235.25
V745-038	1.5oz.; Yellow	600/cs	\$235.25
V745-040	3oz.; Black	400/cs	\$175.75
V745-048	3oz.; Yellow	400/cs	\$175.75
V745-204	4oz.; High profile; Natural	250/cs	\$145.75
V745-086	118mL (4oz.)	250/cs	\$130.42
V745-241	4oz.; Low profile; Natural	250/cs	\$152.51
V745-093	4oz.; Low profile; Black	250/cs	\$133.17
V745-094	4oz.; Low profile; Gold	250/cs	\$133.17
V745-098	4oz.; Low profile; Red	250/cs	\$133.17
V745-100	4oz.; Low profile; Yellow	250/cs	\$133.17
V745-208	8oz.; Natural	140/cs	\$122.24
V745-210	10oz.; Natural	100/cs	\$96.91
V745-109	10oz.; Red	100/cs	\$87.56
V745-113	10oz.; White	100/cs	\$87.56
V745-114	10oz.; Yellow	100/cs	\$87.56
V745-107	10oz.; Blue	100/cs	\$87.56
V745-085	4oz.; High profile; Purple	250/cs	\$130.42
V745-079	4oz.; High profile; Black	250/cs	\$130.42
V745-047	3oz.; Blue	400/cs	\$175.75
V745-106	10oz.; Black	100/cs	\$87.56

Capitol Vial Veterinary Specimen Collection and Transport Vials (Polypropylene)

Constructed of polypropylene, the Thermo Scientific™ Capitol Vial Veterinary Specimen Collection and Transport Vials are translucent in color for easy visibility.

Used commonly for infection control of mastitis.

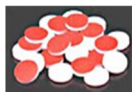
Vials are manufactured in Class 10,000 cleanrooms to insure sterility of the containers prior to use.

Collect and transport biopsies and urine and blood samples.



For Mastitis Test

Part No.	Description	Qty	List
V745-115	0.37oz. (11mL)	2000/cs	\$795.01
V745-128	0.37oz. (11mL)	500/cs	\$181.17



A wide range of glass vials can be found on page 195 to 215.



Standard
Shell
Crimp top
Large opening
and more



Along with multiple options for closures, septas and inserts.



Capitol Vial Flip-Top 2.0oz. Vials

Thermo Scientific™ Capitol Vial Flip-Top 2.0oz. Vials provide economical storage and packaging of a wide range of liquids and solids.

Aseptic, airtight and leakproof construction; 100% FDA-approved food-grade polypropylene vials.

Permanent hinge lid allows easy one-handed opening of vial; shoulderless, liner-less containers.

0.9 I.D. x 3.3in.L (23 x 84mm); Available in 22 different colors.



Part No.	Description	Qty	List
V745-007	Dark Orange	600/cs	\$222.42
V745-005	Black	600/cs	\$222.42
V745-009	Evergreen	600/cs	\$222.42
V745-010	Frego Red	600/cs	\$222.42
V745-011	Gold	600/cs	\$222.42
V745-014	Lime	600/cs	\$222.42
V745-018	Pink	600/cs	\$222.42
V745-020	Royal Blue	600/cs	\$222.42
V745-021	Silver	600/cs	\$222.42
V745-022	Sky Blue	600/cs	\$222.42
V745-027	Yellow	600/cs	\$222.42
V745-023	Turquoise	600/cs	\$222.42
V745-026	Wine	600/cs	\$222.42
V745-024	White	600/cs	\$222.42
V745-019	Purple	600/cs	\$222.42
V745-002	Natural	600/cs	\$138.86

Transport Tubes & Vials

Our Transport Tubes and Vials are ideal for transporting and collecting specimens. Manufactured from chemically inert materials, each tube is suitable as the primary containers for shipping biological specimens.

	50mL	30mL
Tube Material	PP-CO	PP-CO
Cap Material	HDPE	HDPE
Size* (Length x Dia.)	120 x 34mm	84 x 34mm
Min. Temp.**	-40° C	-40° C
Max. Temp.**	120° C	120° C

* Dimensions are measured with cap intact. Diameter measurement is the OD taken at the widest part of the cap.

** Temperature limits are brittleness temperatures of the combined tube and cap materials.



30mL – Transport Vial PP-CO

Part No.	Description	Packaging	Qty	List
T100-031	Natural Tube w/ Blue Cap (Separate)	1 Bag of 500	500/cs	\$219.75
T100-033	Natural Tube w/ Blue Cap (Attached)	20 Bags of 25 – Sterile	500/cs	\$331.40
T100-032	Natural Tube w/ Natural Cap (Separate)	1 Bag of 500	500/cs	\$212.00

50mL – Transport Vial PP-CO

Part No.	Description	Packaging	Qty	List
T100-048	Natural Tube w/ Blue Cap (Separate)	1 Bag of 500	500/cs	\$240.15
T100-049	Natural Tube w/ Natural Cap (Separate)	1 Bag of 500	500/cs	\$245.95
T100-050	Natural Tube w/ Blue Cap (Attached)	20 Bags of 25 – Sterile	500/cs	\$365.85
T100-051	Natural Tube w/ Blue Cap (Attached)	20 Bags of 25	500/cs	\$335.80

Screw Caps for 30mL & 50mL Transport Vials

The screw caps feature continuous 1½-turn threads that assist in securing the cap while keeping it easy to open and close. A molded-in sealing ring envelops the tube wall to prevent liquid bypass and provides a positive stop for the cap. Quality control protocols include gravity and vacuum chamber testing to ensure that the seal integrity is maintained. Not autoclavable.

The coloring agents added to plastics can carry unwanted trace metals. By not adding these colorants we remove any potential trace elements they may contain.



Part No.	Description	Packaging	Qty	List
T100-046	Blue Cap (50mL & 30mL)	1 Bag of 500	500/cs	\$79.35
T100-047	Natural Cap (50mL & 30mL)	1 Bag of 500	500/cs	\$225.05



5mL, 10mL, & 12mL Transport Vials

	10/12mL	10/12mL	10mL	5mL
Tube Material	PP	PS	PP-CO	PP-CO
Cap Material	LDPE	LDPE	HDPE	HDPE
Size* (Length x Dia.)	108 x 17mm	108 x 17mm	94 x 20mm	60 x 20mm
Min. Temp.**	0° C	20° C	-40° C	-40° C
Max. Temp.**	80° C	70° C	120° C	120° C

* Dimensions are measured with cap intact. Diameter measurement is the OD taken at the widest part of the cap.

** Temperature limits are brittleness temperatures of the combined tube and cap materials.

10mL – Transport Vial PP-CO

Part No.	Description	Packaging	Qty	List
T100-007	Natural Tube w/ White Cap (Separate)	250/bg Non-Sterile	1000/cs	\$177.65
T100-009	Natural Tube w/ Blue Cap (Separate)	250/bg Non-Sterile	1000/cs	\$179.60
T100-010	Natural Tube w/ Green Cap (Separate)	250/bg Non-Sterile	1000/cs	\$179.65
T100-011	Natural Tube w/ Red Cap (Separate)	250/bg Non-Sterile	1000/cs	\$181.50
T100-013	Natural Tube w/ Yellow Cap (Separate)	250/bg Non-Sterile	1000/cs	\$181.80
T100-008	Amber Tube w/ White Cap (Separate)	250/bg Non-Sterile	1000/cs	\$208.75
T100-012	Natural Tube (No Cap)	250/bg Non-Sterile	2000/cs	\$251.90
T100-014	Natural Tube w/ White Cap (Attached)	25/bg Sterile	500/cs	\$163.10

5mL – Transport Vial PP-CO

Part No.	Description	Packaging	Qty	List
T100-000	Natural Tube w/ White Cap (Separate)	250/bg Non-Sterile	1000/cs	\$150.00
T100-001	Natural Tube w/ Blue Cap (Separate)	250/bg Non-Sterile	1000/cs	\$146.35
T100-002	Natural Tube w/ Green Cap (Separate)	250/bg Non-Sterile	1000/cs	\$148.20
T100-003	Natural Tube w/ Red Cap (Separate)	250/bg Non-Sterile	1000/cs	\$149.65
T100-005	Natural Tube w/ Yellow Cap (Separate)	250/bg Non-Sterile	1000/cs	\$149.90
T100-004	Natural Tube (No Cap)	250/bg Non-Sterile	1000/cs	\$92.30
T100-006	Natural Tube w/ White Cap (Attached)	225/bg Sterile	500/cs	\$144.55

HDPE Screw Caps for 5mL & 10mL Transport Vials

Part No.	Color	Qty	List
C200-240	Yellow	1000/cs	\$64.10
C200-237	Blue	1000/cs	\$64.05
C200-239	Red	1000/cs	\$63.95
C200-236	White	1000/cs	\$64.05
C200-238	Green	1000/cs	\$64.10

LDPE Plug Caps for Transport Tubes

Hollow Bottom

Part No.	Color	Qty	List
T100-278	White	1000/cs	\$57.50
T100-279	Blue	1000/cs	\$58.15
T100-280	Green	1000/cs	\$58.45
T100-281	Lavender	1000/cs	\$58.45
T100-282	Orange	1000/cs	\$58.45
T100-283	Red	1000/cs	\$57.65
T100-284	Yellow	1000/cs	\$57.35

Hollow Top

Part No.	Color	Qty	List
T100-269	White	1000/cs	\$60.25
T100-270	Blue	1000/cs	\$60.25
T100-271	Green	1000/cs	\$60.25
T100-272	Lavender	1000/cs	\$60.25
T100-273	Orange	1000/cs	\$60.25
T100-274	Red	1000/cs	\$60.25
T100-275	Yellow	1000/cs	\$60.25

10/12mL Plug Cap Transport Vials

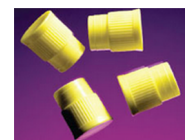
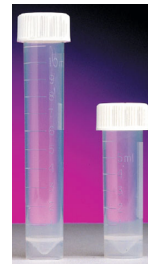
(Caps sold separately)

10mL Conical Bottom

Part No.	Description	Qty	List
T100-255	Polystyrene / 4 Bags of 250	1000/cs	\$179.65
T100-256	Polypropylene / 2 Bags of 500	1000/cs	\$151.00

12mL Flat Bottom

Part No.	Description	Qty	List
T100-277	Polypropylene / 2 Bags of 500	1000/cs	\$125.55



Sample Vials with Captive Closure

Cylindrical, low-density PE vials with friction-fit, captive closures.
Open and close with a flick of your thumb.
Excellent for storage of liquids as well as for storing and shipping dry materials.



Part No.	Capacity	O.D.	Height	Qty	List
M440-332	0.13mL	7.0mm	13.7mm	12/cs	\$30.83
M440-333	3.73mL	15.0mm	50.0mm	12/cs	\$40.73
M440-334	9.50mL	16.0mm	56.7mm	12/cs	\$43.20

Snap Cap Vials

Constructed of glass-clear styrene for complete visibility, these vials are excellent for storing dry materials, powders, tablets and other samples.

Heavy, rigid-wall construction ensures long service.
Can be used at temperatures from -20 to 70°C (-4 to 158°F).
Supplied with tight-fitting, polyethylene snap-on caps.
Available in nine (9) sizes from 3 dram (11mL) through 40 dram (148mL).



Part No.	Size	Dimensions (O.D. x H)	Qty	List
M440-335	3 dram (11mL)	20 x 48mm (3/4 x 1 7/8")	144/cs	\$99.23
M440-336	5 dram (19mL)	25 x 50mm (1 x 2")	144/cs	\$101.70
M440-337	7 dram (26mL)	29 x 50mm (1 1/8 x 2")	144/cs	\$108.30
M440-338	10 dram (37mL)	29 x 82mm (1 1/8 x 3 1/4")	144/cs	\$132.15
M440-339	13 dram (48mL)	34 x 72mm (1 3/8 x 2 7/8")	144/cs	\$148.20
M440-340	15 dram (55mL)	36 x 62mm (1 3/8 x 2 1/2")	144/cs	\$167.03
M440-341	20 dram (74mL)	42 x 63mm (1 5/8 x 2 1/2")	144/cs	\$188.70
M440-342	30 dram (111mL)	49 x 74mm (1 7/8 x 2 7/8")	72/cs	\$130.05
M440-343	40 dram (148mL)	49 x 98mm (2 x 3 7/8")	72/cs	\$145.80

Kartell High Strength Vials, HDPE

High strength plastic vials are leakproof.
Excellent chemical resistance.
Suitable for foodstuff.
Sturdy, heavy walled plastic vials, ideal for storing mercury etc. Small quantities of liquid or solid samples can be taken out by pipette / spatulas without the hindrance of internal shoulders.



Part No.	Capacity	O.D. x I.D.	Height	Wall Thickness	Weight	Qty	List
M461-356	5mL	21 x 17.6mm	35.7mm	1.7mm	11Kg	10/pk	\$57.78
M461-357	10mL	21 x 17.6mm	58.4mm	1.7mm	13Kg	10/pk	\$69.50
M461-358	30mL	35 x 31mm	53mm	2mm	22Kg	10/pk	\$80.39
M461-359	60mL	35 x 31mm	94.2mm	1.7mm	29Kg	10/pk	\$103.77
M461-360	90mL	54.5 x 50mm	63.4mm	2.2mm	44Kg	5/pk	\$60.81
M461-361	180mL	54.5 x 50mm	109.6mm	2.2mm	61Kg	5/pk	\$72.03

Kartell Vials, Sample LDPE

Plastic vials can be used as weighing containers.
Flat bottomed plastic vials.
Suitable for foodstuff.
General purpose plastic vial containers with push-in friction fit hinged lids. Lightweight, wall thickness approximately 1mm. Plastic LDPE Vials withstand temperatures up to 80° C.



Part No.	Capacity	O.D.	Height	Wall Thickness	Qty	List
M461-329	1mL	8mm	32mm	0.98mm	100cs	\$76.82
M461-330	2.5mL	14mm	31.5mm	0.83mm	100cs	\$90.62
M461-331	5mL	15mm	49mm	0.93mm	100cs	\$94.74
M461-332	8mL	17.2mm	57.6mm	1.2mm	100cs	\$103.38
M461-333	7mL	22.8mm	32.9mm	1.35mm	100cs	\$122.38
M461-334	20mL	24.8mm	74.5mm	1.6mm	100cs	\$135.44
M461-335	35mL	31mm	74.5mm	1.6mm	100cs	\$185.71



Vials, Hinged Snap Cap LDPE

General purpose 25mL plastic vial containers with push-in friction fit hinged lids. Withstands temperatures up to 80°C.



Part No.	Dimensions	Qty	List
M460-200	55mm H x 30mm Ø	1000/cs	\$2262.88

Tuff Vials, PC

Highly break resistant tough polycarbonate vials with polypropylene leakproof closures. Glass clear allows viewing of valuable contents, liquid or solid. Reusable and autoclavable. 180mL can also be used as an outer protective container. Sold as each, Packs of 6 or Tray of 12.

5mL and 10mL are also ideal for leakproof shipping of reagents and buffer solutions, for packaging of serum, veterinary, cosmeceutical and nutraceutical extracts. Use with most aromatic compounds and essential oils.



Part No.	Size	Closure	Qty	List
M462-115	5mL	20-415mm	100/cs	\$124.67
M462-116	10mL	20-415mm	100/cs	\$137.14
M462-117	180mL	54mm	12/cs	\$98.17

Storage Vials, PP

Storage vials are designed for use with samples from -80° to 121°C. DNase, RNase and Pyrogen free.

Used for storage of PCR reagents, enzymes and other diagnostics, biochemical reagents or samples.

Polypropylene vials feature a large white frosted labeling area, silk screen graduations and a leak-proof HDPE cap.



Part No.	Capacity	Outside Diameter	Height	Qty	List
C221-865	2.0mL	11.80mm	47.2mm	1000/cs	\$207.60
C221-864	5mL	11.80mm	88mm	1000/cs	\$207.60

Flip-Top Vials

Ideal for storing and packaging a wide variety of liquids and solids.

Material: PP
 Capacity: 3oz (90mL)
 Color: Natural
 Style: Write on Space
 Level: FDA Approved



Part No.	Description	Qty	List
V745-070	Write on Flip Top	400/cs	\$163.19

Flip-Top Vials

Ideal for storing and packaging a wide variety of liquids and solids. This water vial includes a sodium thiosulfate pill.

Material: PP
 Capacity: 4oz (120mL)
 Color: Natural
 I.D.: 43mm
 Height: 95mm
 Closure: Lock seal, tamper evident, chain of custody



Part No.	Description	Qty	List
V745-904	Tamper Evident	200/cs	\$123.61

Don't forget your Vial Racks on page 218.



Cryo Vials, External Threaded, Sterile, PP

Cryo vials are designed for storage of samples as low as -196°C*. DNase, RNase and Pyrogen-free. Radiation sterilized. Polypropylene vials feature a large white frosted labeling area, silk screen graduations and a leak-proof HDPE cap. Skirted base vials have an internal flat bottom. Star base and round base vials have an internal U-shaped bottom. Self-standing star base vials are designed for one-handed use with a support rack.

*Not recommended for use in the liquid phase of liquid nitrogen. Can be used in vapor phase of liquid nitrogen.



Part No.	Description	Outer Diameter	Height	Qty	List
C221-872	1.8mL Skirted Base	11.8mm	47.2mm	1000/cs	\$298.60
C221-854	1.8mL Star Base	12mm	48.5mm	1000/cs	\$305.43
C221-853	1.8mL Round Base	12mm	47.5mm	1000/cs	\$302.50
C221-871	4.5mL Skirted Base	11.8mm	88mm	500/cs	\$249.53
C221-852	4.5mL Star Base	12mm	91.5mm	500/cs	\$255.03
T660-349	4.5mL Round Base	12mm	90.5mm	500/cs	\$252.10

Cryo Vials, Internal Threaded, Sterile, PP

Cryo vials are designed for storage of samples as low as -196°C*. DNase, RNase and Pyrogen-free. Radiation sterilized. Polypropylene vials include a cap embedded with a non-toxic silicone O-ring for a secure seal, a large white frosted labeling area and silk screen graduations. Star base and round base vials have an internal U-shaped bottom. Self-standing star base vials are designed for one-handed use with a support rack.

*Not recommended for use in the liquid phase of liquid nitrogen. Can be used in vapor phase of liquid nitrogen.



Part No.	Description	Outer Diameter	Height	Qty	List
C221-863	1.8mL Star Base	12.3mm	47.5mm	500/cs	\$272.27
C221-862	1.8mL Round Base	12.3mm	46.2mm	500/cs	\$272.27
C221-861	4.5mL Star Base	12.3mm	89mm	250/cs	\$183.87
C221-860	4.5mL Round Base	12.3mm	89mm	250/cs	\$183.87

SNAPTWIST® Scintillation Vials 6.5mL

Made of polypropylene and high density polyethylene.

This general purpose vial can be used for liquid scintillation counting, gamma counting, chromatography, sample storage and culturing. It will fit very nicely into the LKB and Packard Varisette counters. The shoulderless vial features a full width opening of 12.5mm and the overall dimensions are 16 x 57mm. The exclusive SNAPTWIST® closures are made of high-flow polypropylene and are a true time saver.

The vials can be securely sealed by simply snapping the caps on; removal of caps requires an easy 1/4 turn (twist). The ease with which these caps can be manipulated eliminates the danger of spillage associated with other push-on/pull-off caps. A built-in positive lock prevents the cap from popping off because of a small build-up of pressure in the vial. The quality of the sealing system is such that it is not necessary to tighten the closure with pressure to achieve a leakproof seal.



Part No.	Tube	Cap	Size (mm)	Qty	List
M650-550	Polyethylene	Polypropylene	16 x 57	1000/cs	\$147.33
M650-551	Polypropylene	Polyethylene	16 x 57	1000/cs	\$147.33

Scintillation Vials 20mL

Vial made of polypropylene / Cap made of high density polyethylene.

This shoulderless vial features a full width opening of 23mm for ease of access, a high degree of resistance to organic solvents and sufficient translucence so that reagent levels or the presence of filter paper can be easily detected. The unique thread design of the closure allows the vial to be sealed and opened with an easy 1/4 turn. The quality of the sealing system is such that it is not necessary to tighten the closure with a lot of pressure to achieve a leakproof seal. Polyethylene closure may not be autoclaved.



Part No.	Volume	Size	Packaging	Qty	List
M650-552	20mL	26 x 61mm	Bulk	500/cs	\$121.35
M650-553	20mL	26 x 61mm	100/Tray	500/cs	\$178.05

Sample Dilution Vials

Made of polystyrene.

With optically clear parallel sides. The snap cap is spill proof but easily removed. Guaranteed to meet or exceed O.E.M. specifications. Available in specially designed vacuum formed trays or in bulk packaging.

Dimensions: 35 x 56mm H Volume: 25mL



Part No.	Packaging	Qty	List
T240-701	Trays of 50 / 20 trays per case	1000/cs	\$239.55
T240-702	Bulk pack	1000/cs	\$191.80



SAFETY

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With such a wide selection of products from multiple manufacturers, not all options are listed here. If you do not see a product which meets the specifications you need, please feel free to contact us.

ABSORBENTS

PIG® Absorbent Mat Pad in Dispenser Box

Heavyweight, 15" x 20", 100 pads.

Absorbs most common industrial liquids - oils, water, solvents, coolants and more.

Eight layers of 100% polypropylene are thermally bonded to make PIG Mat the strongest mat on the market; won't rip, tear or fray even when saturated.

Exclusive dimple pattern speeds wicking of liquid throughout mat for faster, easier cleanup.

Highly absorbent, fine-fiber construction won't leave liquids or fiber residue behind.

Absorbed leaks and drips blend right in; dark gray color hides grime so mat stays on the job longer.

Flame-resistant material won't burn immediately like cellulose mats; melts when exposed to high heat while on the job.

Can be wrung out and incinerated after use to reduce waste or for fuels blending.

Dispenser box makes it easy to take, carry and store your mat while protecting it from dirt and moisture.

Pads are ideal for catching drips and soaking up spills.

Fluid Absorbed: Oils, Coolants, Solvents, Water

Color: Gray

Absorbency: Up to 22 gal. per box

Absorbency per: Up to 28.16oz. per pad

Perforated: Perforated Down Center Widthwise



Part No.	Description	Qty	List
S801-970	Absorbent Mat Pad in Dispenser Box	100/bx	\$215.00

PIG® HazMat Mat Pad

Heavyweight, 15" x 20", 100 pads.

Lasts 2x longer than ordinary mats for fewer change-outs. Specially made for acids, bases, corrosives and chemical spills.

Absorbs the widest range of acids, bases, corrosives, chemicals and unknown liquids - even those with high concentrations like 98% sulfuric acid and 30% sodium hydroxide.

Chemical-resistant mat won't degrade or cause a dangerous reaction upon contact with corrosive spills.

Eight layers of 100% polypropylene are thermally bonded to make PIG Mat the strongest mat on the market; won't rip, tear or fray even when saturated.

Exclusive dimple pattern speeds wicking of liquid throughout mat for faster, easier cleanup.

Highly absorbent, fine-fiber construction won't leave behind liquids or fiber residue.

Pink color is easily distinguishable to assure workers use the correct mat during a spill emergency.

Flame-resistant material won't burn immediately like cellulose mats; melts when exposed to high heat while on the job.

Fluid Absorbed: Acids; Bases; Unknowns

Color: Pink

Absorbency: Up to 22 gal. per bag

Absorbency per: Up to 28.16oz. per pad

Perforated: Perforated Down Center Widthwise



Part No.	Description	Qty	List
S802-020	15" x 20" Mat Pad	100/pk	\$212.50

PIG® Absorbent Mat Roll

Heavyweight, 30" x 150', 1 roll.

Absorbs most common industrial liquids - oils, water, solvents, coolants and more.

Eight layers of 100% polypropylene are thermally bonded to make PIG Mat the strongest mat on the market; won't rip, tear or fray even when saturated.

Exclusive dimple pattern speeds wicking of liquid throughout mat for faster, easier cleanup.

Highly absorbent, fine-fiber construction won't leave liquids or fiber residue behind.

Absorbed leaks and drips blend right in; dark gray color hides grime so mat stays on the job longer.

Flame-resistant material won't burn immediately like cellulose mats; melts when exposed to high heat while on the job.

Can be wrung out and incinerated after use to reduce waste or for fuels blending.

Rolls are ideal for covering large areas and soaking up leaks and overspray.

Color: Gray

Absorbency : Up to 40.2 gal. per bag

Absorbency per: Up to 40.2 gal. per roll

Perforated: Perforated Every 10" Lengthwise & Centered Widthwise



Part No.	Description	Qty	List
S801-988	30" x 150' Mat Roll	1/pk	\$357.50



Pig Blue® Absorbent Mat Pad

Heavyweight, 15" x 19", 100 pads.

Pound for pound, Pig Blue is our most absorbent mat! Maximum absorbency soaks up more so you use less on big spills and high-volume leaks.

No leak zones! Consistent construction produces a mat that's free of light spots to absorb liquid evenly for better wicking and retention.

FiberFusion Technology fuses super absorbent natural fibers with strong synthetic fibers for one high-performance absorbent.

Stays together, even when picking up or shifting a fully saturated mat.

Contains 75% recycled fibers; ideal in situations where green products are desired or required.

Fire retardant for added safety; flame-tested in accordance with ASTM Standard E84-08.

Absorbs oils, coolants, solvents and water; not recommended for acids, bases or other corrosive liquids.

Fluid Absorbed: Oils, Coolants, Solvents, Water

Color: Light Blue

Dimensions: 15" W x 19" L

Absorbency: Up to 34 gal. per box

Absorbency per: Up to 43 oz. per pad

Perforated: Perforated Down Center Widthwise



Part No.	Description	Qty	List
S800-058	15" x 19" Absorbent Mat Pad	100/pk	\$195.00

PIG® Lite-Dri® Loose Absorbent

Absorbs Oils, Coolants, Solvents, Water, General Absorbent, Absorbs up to 8 gal.

Silica-free loose absorbent for most common industrial liquids is easier to lift and lighter to carry than clay — plus it's 3X more absorbent.

Unlike clay, which is simply coated with liquid, fast-wicking recycled cellulose actually soaks up the spill the moment it touches.

Three times more absorbent means you'll use less material on the spill, reducing your labor and disposal costs.

Silica-free composition is non-abrasive and does not pose the health hazards associated with breathing in clay dust.

Non-abrasive composition won't harm finished floors or damage expensive machinery.

Light-weight absorbent is easier than clay to carry and use without injury.

Absorbs and retains oils, coolants, solvents and water.

Bag features a built-in handle for easy portability, handling and dispersal.

Recycled cellulose is ideal when green products are desired or required.

Can be incinerated after use to reduce waste or for fuels blending.

Color: Light Gray

Absorbency: Up to 8 gal. per bag



Part No.	Description	Qty	List
S802-504	Lite-Dri® Loose Absorbent	100/pk	\$35.00

PIG® HazMat Chemical Absorbent Pulp

Absorbs Acids, Bases, Unknowns, General Absorbent, Absorbs up to 6.5 gal.

Pound-for-pound, it's the most absorbent loose absorbent you can buy for spills of concentrated chemicals including acids, bases or other corrosives.

Packing the power of PIG HazMat in a loose absorbent, this pulp can be used in a variety of applications.

Absorbs the widest range of acids, bases and unknown liquids, even those with high concentrations like 98% sulfuric acid and 30% sodium hydroxide.

Chemical-resistant pulp won't degrade or cause a dangerous reaction upon contact with corrosive spills.

Ideal for difficult to reach spaces or final cleanup.

Absorbs and retains most acids, bases and unknown liquids.

Pink color is easily distinguishable to assure workers use the correct pulp during a spill emergency.

Can be incinerated after use to reduce waste.

Color: Pink

Absorbency: Up to 6.5 gal. per box



Part No.	Description	Qty	List
S801-673	HazMat Chemical Absorbent Pulp	1/ea	\$135.00

CABINETS

Acid

4 Gallon Cabinet Countertop Blue Corrosives/Acid Steel Safety Sure-Grip® EX

1 door, manual
 1 adjustable shelf
 Gallon Capacity: 4 gal. 15 liters
 Dimensions, Exterior: 22" H x 17" W x 17" D
 Dimensions, Interior: 18.5" H x 13.8" W x 13.8" D



Part No.	Description	Qty	List
S842-372	4 Gal. Manual Door	1/ea	\$2097.27

12 Gallon Cabinet Compact Blue Corrosives/Acid Steel Safety Sure-Grip® EX

1 door, Manual
 1 adjustable shelf
 Capacity: 12 gal. 45 liters
 Dimensions, Exterior: 35" H x 23.25" W x 18" D
 Dimensions, Interior: 30.5" H x 20" W x 14.6" D



Part No.	Description	Qty	List
S842-361	12 Gal. Manual Door	1/ea	\$5602.78

30 Gallon Cabinet Manual Door Blue Acid Safe Sure-Grip EX

1 adjustable shelf
 Capacity: 30 gal. 114 liters
 Dimensions: 44" x 43" x 18"



Part No.	Description	Qty	List
S842-377	30 Gal Manual Door Cabinet	1/ea	\$3700.31

60 Gallon Cabinet Manual Door Blue Acid Safe Sure-Grip EX

2 door, Manual
 2 adjustable shelves
 Capacity: 60 gal. 227 liters
 Dimensions: 65" x 34" x 34"



Part No.	Description	Qty	List
S842-357	60 Gal. Manual Door Cabinet	1/ea	\$3808.56

Ask your sales representative about our
FOXBRAND® Chemical options.



Beta

Beta Cabinet

Locking beta storage cabinet is available with four adjustable shelves allowing for secure storage of your beta samples. Cabinet features space saver design to fit nicely on most bench tops. Shelves are sized to accommodate racks, bottles, boxes, etc... Unit has four adjustable leveling feet and safety lock. Supplied with radiation hazard stickers.

All Dynalon Beta protection products are manufactured in the United States using Acrylic sheet certified by an independent organization to be 100% effective in shielding against beta radiation.

Important Cleaning Note: Should the acrylic surfaces of acrylic products need cleaning, DO NOT USE ANY SOLVENTS OR ABRASIVES (alcohol, acetone, etc...) USE OF THESE MATERIALS WILL CAUSE CRACKING OR CRAZING OF THE ACRYLIC. For general cleaning wash the surface with a mild detergent and soft cloth, then rinse thoroughly with clean water.



Part No.	Description	Qty	List
C420-017	12" L x 30" W x 24" H	1/ea	\$1177.62

Beta Box with Removable Lid

This Beta box is made from 9.5mm (3/8") clear acrylic with tightfitting joints that reduce exposure to radioactive isotopes.

Excellent visibility of contents.

Includes removable lid and non-skid feet.



Part No.	Description	Qty	List
M440-652	Beta Box	1/ea	\$290.40

Beta Block with Base and Cover

Heavy solid acrylic blocks hold 1.5ml microcentrifuge tubes. Designed for both bench-top work as well as long term storage of beta-emitting radioactive isotope samples.

Supplied with cover, non-skid feet and radiation hazard warning labels.



All Dynalon Beta protection products are manufactured in the United States using Acrylic sheet certified by an independent organization to be 100% effective in shielding against beta radiation.

Important Cleaning Note: Should the acrylic surfaces of acrylic products need cleaning, DO NOT USE ANY SOLVENTS OR ABRASIVES (alcohol, acetone, etc...) USE OF THESE MATERIALS WILL CAUSE CRACKING OR CRAZING OF THE ACRYLIC. For general cleaning wash the surface with a mild detergent and soft cloth, then rinse thoroughly with clean water.

Part No.	Description	Qty	List
R650-013	4 Place; 4.75" x 2.25" x 2.75"	1/ea	\$208.71
R650-014	12 Place; 7.5" x 2.75" x 3.5"	1/ea	\$334.41
D300-038	24 Place; 7.5" x 5.5" x 3"	1/ea	\$284.59

Beta Box

Clips Hold Disposable Bag

This Beta Box is made from clear 9.5mm (3/8") acrylic for protection from radioactive isotopes.

Removable lid.

Non-skid feet.

Clips hold a disposal bag in place.



Part No.	Description	Qty	List
M440-653	12" x 8" x 15"	1/ea	\$779.10

Beta-Safe Storage Box

Complies with security regulations.

Fabricated from 9.5mm (3/8") clear acrylic for all around visibility of stored contents, this box stores radioactive materials such as P-32, S-35 and C-14.

Hinged lid with a hasp is provided for locking; lock and cable or chain not included.

Entire unit may be secured by utilizing a locking 1/4" cable through the anti-theft connectors which are securely attached to the box.

Standard unit measures a generous 25.4 x 15.24 x 17.8cmH (10 x 6 x 7H") I.D.

Complies with USNRC Rules and Regulations, Title 10, Chapter 1, Part 20.



Part No.	Description (L x W x H)	Qty	List
M440-654	25.4 x 15.24 x 17.8cm (10 x 6 x 7")	1/ea	\$366.45

Beta Storage Box with Foam Rack

Beta storage box with foam rack features a disposable foam insert to accommodate various small bottles. Box is supplied with non-skid feet and radiation hazard warning labels.

All Dynalon Beta protection products are manufactured in the United States using Acrylic sheet certified by an independent organization to be 100% effective in shielding against beta radiation.

Important Cleaning Note: Should the acrylic surfaces of acrylic products need cleaning, DO NOT USE ANY SOLVENTS OR ABRASIVES (alcohol, acetone, etc...) USE OF THESE MATERIALS WILL CAUSE CRACKING OR CRAZING OF THE ACRYLIC. For general cleaning wash the surface with a mild detergent and soft cloth, then rinse thoroughly with clean water.



Part No.	Description (L x W x H)	Qty	List
D300-037	3 1/8"H x 11"L x 7 7/8"W	1/ea	\$305.24

Flammable

Justrite 22 Gallon Cabinet Manual Door Yellow Flammable Slimline Sure-Grip® EX

1 door, manual
3 adjustable shelves
Capacity: 22 gal. 83 liters
Dimensions: 23.25" W x 65" H x 18" D



Part No.	Description	Qty	List
S842-367	22 Gal. Manual Door Cabinet	1/ea	\$3302.01

Justrite 30 Gallon Cabinet Manual Door Yellow Flammable Safe Sure-Grip® EX

2 door, manual
1 adjustable shelf
Capacity: 30 gal. 114 liters
Dimensions: 43" W x 44" H x 18" D



Part No.	Description	Qty	List
S842-436	30 Gal. Manual Door Cabinet	1/ea	\$3172.42

Justrite 45 Gallon Cabinet Manual Door Yellow Flammable Sure-Grip® EX

2 door, manual
2 adjustable shelves
Capacity: 45 gal. 170 liters
Dimensions, Exterior: 65" H x 43" W x 18" D
Dimensions, Interior: 60.5" H x 39.5" W x 14.6" D



Part No.	Description	Qty	List
S842-287	45 Gal. Manual Door Cabinet	1/ea	\$3929.48

Justrite 60 Gallon Cabinet Manual Door Yellow Flammable Safe Sure-Grip® EX

2 door, manual
2 adjustable shelves
Capacity: 60 gal, 227 liters
Dimensions: 34 x 65 x 34



Part No.	Description	Qty	List
S842-407	60 Gal. Manual Door Cabinet	1/ea	\$4731.96

Justrite 90 Gallon Cabinet Manual Door Yellow Flammable Yellow Sure-Grip® EX

2 door, manual
2 adjustable shelves
Capacity: 90 gal. 341 liters
Dimensions, Exterior: 65" H x 43" W x 34" D
Dimensions, Interior: 60.5" H x 39.5" W x 30.3" D



Part No.	Description	Qty	List
S842-320	90 Gal. Manual Door Cabinet	1/ea	\$5652.22



CONTAINMENT

Mats

Absorbent Mat Pad

Lasts 2x longer than ordinary mats for fewer change outs. Absorbs everything and works everywhere. Absorbs most common liquids (oils, water, solvents, coolants and more.)

Color: Gray
 Dimensions: 15 x 20" (W x L)
 Absorbency: Up to 22 Gal/bag
 Absorbency per: Up to 14.08oz per pad
 Level: Lightweight



Part No.	Description	Qty	List
P625-000	Absorbent Mat Pad	200/cs	\$199.50

Fischer Technical Laboratory Safety Mats

Features non-slip silicone rubber. Available in red or black with temperature resistance up to 260 degrees celsius. 2 sizes available: 250mm x 250mm and 350mm x 350mm



Part No.	Description	Qty	List
P333-022	(Red, 250 x 250)	1/ea	\$58.09
P333-020	(Black, 250 x 250)	1/ea	\$58.09
P333-023	(Red, 350 x 350)	1/ea	\$75.77
P333-021	(Black, 350 x 350)	1/ea	\$76.13

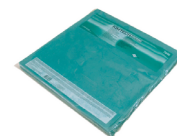
KIMTECH SCIENCE* Bench Top Protector Sheet

Each 18" x 19.5" sheet features polyethylene backing for excellent slip resistance, so it won't slide out from under your work. The absorbent material quickly soaks up liquid spills and maintains a flat, stable surface even after drying, to protect valuable experiments and glassware.

Absorbent material remains flat, even after drying.

Advance bench top protector sheet has polyethylene backing for excellent slip resistance.

Each bench top protector sheet is generously sized, measuring 18" x 19.5" Flat, stable surface helps protect your delicate glassware and lab experiments.



Part No.	Material / Put-Up / Size	Qty/pk	List/pk	Qty/cs	List/cs
W111-036	... Polypropylene / 8/50 / 18" x 19.5"	50/pk	\$35.03	400/cs	\$280.20

BenchGuard Absorbent Matting

BenchGuard and BenchGuard Extra have highly absorbent upper surfaces that contain spills and a tough polycoated base to protect your work surface.

Standard BenchGuard absorbs up to 440ml per square meter. For your most demanding applications choose BenchGuard Extra - it absorbs up to 800ml per square meter.

BenchGuard and BenchGuard Extra are available in either pre-cut sheets (60 x 49cm) or a roll dispenser (50m x 49cm) that has a built in cutting edge for easy cutting of any size sheet.



Part No.	Description	Qty	List
M461-870	Benchguard Roll Dispenser	1/ea	\$306.38
M461-871	Benchguard Extra Roll Dispenser	1/ea	\$400.82

Slip-Stop Matting

Slip-Stop Matting - reusable and washable.

- Put an end to slips and messy mishaps anywhere
- Tacky mats hold objects firmly in place
- Contribute to safety by reducing glass breakage
- Use with shakers and stirrers to hold flasks
- Additional sizes available upon request

Dimensions (W x L x T): 16" x 6" x 1/32"



Part No.	Description	Qty	List
M461-776	Slip-Stop Matting	1/ea	\$16.35

Sticky Mats

Fast, effective and easy to use, each mat is composed of multiple layers of tough polyethylene film coated with adhesive and laminated together into a stack. These adhesive layers have numbered tabs for easy sheet separation. When the surface is contaminated, simply peel off the top layer and discard. An antimicrobial agent is incorporated in all adhesives and a 100% non-skid adhesive backing secures mat placement and helps prevent under-mat contamination & water seepage.



Part No.	Description	Qty	List
M465-000	24 x 45" Blue 30 Sheets per mat	4/cs	\$216.66

Labmat Bench Liner; 50 Feet, White

White or biohazard safety orange.

Disposable Labmat™ Bench Liner speeds clean-up and safeguards work surfaces from stains, spills and wear. Simply roll up and discard after contamination.

Highly absorbent upper surface traps up to 420ml/m² of water, dyes, corrosive chemicals or radioactive solutions.

Flexible polyethylene film backing is non-skid and prevents soak-through of most solutions.

Available in 50.8cm (20") wide by 15.2m (50ft.) rolls or 50.8 x 61cm (20 x 24") pre-cut sheets.

Rolls are easily cut with the Scienceware Safety Cutter® (M440-561) or scissors while roll is retained in dispenser.



Part No.	Description	Qty	List
M440-579	White 50ft. roll	1/ea	\$94.65
M440-583	Safety Orange for Biohazard Designated Use. 50ft. roll	1/ea	\$120.00
M440-580	Cut Sheets – White, 50.8 x 61cm (20 x 24")	100/bx	\$331.87

Ribbed Matting

- For lining shelves, drawers or use as a floor liner
- 5 times as thick as normal shelf/drawer liner
- Ribs hold dirt and spills

Clear polyethylene ribbed matting. Perfect floor liner goes down quickly and lies flat. Ribs hold dirt until it can be wiped away. As a shelf and drawer liner, heavy weight matting is five (5) times as thick as normal shelf liner.

Easily cut with regular scissors but it won't tear! Also useful under drums or carboys. Heavy weight matting .036" thick with ribs.



Part No.	Description (W x L)	Qty	List
M461-778	30" x 15'	1/ea	\$47.41
M461-777	30" x 50'	1/ea	\$158.09
M461-779	30" x 100'	1/ea	\$256.00

Trays

Polystyrene Spill Containment Tray; 23 x 27 x 1/2 in.

Protects laboratory benches.

The polystyrene plastic tray protects laboratory benches.

Accepts M440-580 Labmat™ Sheets as liners (not included) to absorb spilled liquids.

12.7mm (1/2") deep with an external flange.



Part No.	Description (L x W)	Qty	List
M440-581	58 x 69cm (23 x 27")	1/ea	\$100.88

Spill Containment Tray

This large, deep polypropylene plastic tray protects users by capturing accidental hazardous spills. The epoxy coated wire support grid holds numerous vessels or racks of test tubes. Both the tray and support grid have outstanding chemical resistance. Steam autoclavable at 121°C (250°F).

Capacity: 7.0L (237oz)

Dimensions: 36.5 x 30.8 x 12.1cm

(14-3/8" x 12-1/8" x 4-3/4")



Part No.	Description	Qty	List
M440-584	Spill Containment Tray	1/ea	\$129.60



Spill Containment Tray

Eliminate spills with this chemical-resistant, maintenance-free, polyethylene containment tray. Use one at each workstation or fume hood to safely handle chemicals and liquids while pipetting, measuring or mixing. Holds 1-1/4 liters of spilled liquid. Easy to clean—simply lift off the white grid and empty. Low profile design is perfect for drying glassware and delicate items. Size is 16-1/2 x 13 x 5/8". Weight is 1 pound.



Part No.	Description	Qty	List
T501-206	Spill Containment Tray	1/ea	\$33.63

Polypropylene Spill Containment Tray; 12¾ x 7⅞ x 5⅞ in.

Reduce injury and damage from accidental spills.

Capturing hazardous chemical and contaminant spills when transferring from one vessel to another is easy with these portable spill containment trays.

Large tray has a spill surface that will support multiple flasks, beakers or a rack of test tubes.

Smaller tray is ideal for smaller vessels and tight spaces.

Can also be used for storing hazardous, corrosive chemicals, stains, etc. to protect benchtops, shelves and cabinets.

Chemical resistant polypropylene plastic; durable.

Steam autoclavable at 121°C (250°F).

Volume: 3.5L (118oz)



Part No.	Outside Dimensions (L x W x H)	Qty	List
R100-255	32 x 20 x 15cm (12¾ x 7⅞ x 5⅞")	1/ea	\$101.85

Carboy Spill Tray

- Carboy spill containment stand is designed for laboratory carboys or other large containers with spigots.
- Carboy spill trays are fabricated with 1/4" thick chemically resistant HDPE. All welded construction featuring a 1/2" skid resistant top shelf.
- Provides a safer way to dispense chemicals or other liquids in the lab.
- Protects cabinets, laboratory benches and floors from liquid spills.
- Each carboy spill tray contains two convenient drain ports and ½" tubulation connection on lower trough.
- Built-in lower bin for convenient storage of other labware or small accessories.
- Built-in side handles for convenient transport.
- 8" shelf height to accommodate up to a 5000mL beaker.

Carboy Spill Tray Specifications:

Height: 13" / 330.2mm

Width: 24.5" / 622.3mm

Depth: 25" / 635mm

Tray (lower trough) capacity: 2 1/2 Gal / 10L

Weight: 16 lbs / 7.25Kg

Supplied with (2) two caps and (1) one tubing connector.



Part No.	Description	Qty	List
T420-006	Carboy Spill Tray	1/ea	\$750.82

Microcentrifuge Tube Ice Rack/Tray; For 1.5ml Tubes, 50 Places

Reduce injury and damage from accidental spills.

Capturing hazardous chemical and contaminant spills when transferring from one vessel to another is easy with these portable spill containment trays.

Large tray has a spill surface that will support multiple flasks, beakers or a rack of test tubes.

Smaller tray is ideal for smaller vessels and tight spaces.

Can also be used for storing hazardous, corrosive chemicals, stains, etc. to protect benchtops, shelves and cabinets.

Chemical resistant polypropylene plastic; durable.

Steam autoclavable at 121°C (250°F).

Volume: 0.5 Liter (17oz)



Part No.	Outside Dimensions (L x W x H)	Qty	List
R100-253	25.4 x 13.3 x 7.3cm (9⅞ x 5¼ x 2⅞")	1/ea	\$72.45

The Wedge Pan

These thin-edged, disposable pans are great for scooping up spilled chemical residue after containment by an absorbent medium.

Inexpensive and convenient; styrene plastic.

Recessed hand grip keeps fingers clear of waste.

Use a single pan or gather large spills more quickly by pushing two pans toward one another.

Dimensions: 17.8 x 18.4cm (7 x 7¼"); taper from a thin edge to 3.2cm (1¼") deep



Part No.	Description	Qty	List
M440-629	Wedge Pan	6/cs	\$93.98

DISPOSAL

Bags

Decontamination Bags

Thickness: 1.8mil
 Autoclavable: Yes
 Indicator: External
 Temp: 280°F



Part No.	Description	Qty	List
B100-010	Clear, 24 x 30"	100/cs	\$110.83
B100-020	Orange, 14 x 19"	200/cs	\$171.77

Biohazard Bags

Color: Orange
 Thickness: 1.8mil
 Autoclavable: Yes
 Temp: 285°F



Part No.	Description	Qty	List
B100-023	19 x 24", 7-10 Gallons	200/cs	\$113.91
B100-024	25 x 35", 13-16 Gallons	200/cs	\$129.09
B100-025	38 x 47", 44 Gallons	100/cs	\$138.51

Biohazard Disposal Bags – Red - 1.5 mil

Sterilization safety feature.

Bright red polypropylene bags include black biohazard symbol and precautionary procedures printed in four languages (English, Spanish, French, German) for added safety.

Sterilization patch darkens when subjected to steam sterilization.

High temperature steam autoclavable to 135°C (275°F).

Pass ASTM 1922 Tear Resistance and ASTM 1709 Dart Impact Tests.

Made in USA.



Part No.	Description (L x W x H) / Gal Capacity	Qty	List
B415-384	36 x 48cm (14 x 19") / 2 to 4	200/cs	\$188.63
B415-385	48 x 58cm (19 x 23") / 5 to 9	200/cs	\$274.43
B415-387	79 x 97cm (31 x 38") / 20 to 30	200/cs	\$642.53
B415-386	64 x 89cm (25 x 35") / 13 to 20	200/cs	\$489.83
B415-388	97 x 122cm (38 x 48") / 40 to 50	100/cs	\$496.35

Transport Bags - 2 mil

Autoclavable: Yes
 Capacity: 7 Gallons



Part No.	Description	Qty	List
B100-001	19 x 24" Red	200/cs	\$294.84



Biohazard Disposal Bags – Super Strength - 2.5 mil

Extra thick, extra strong high temperature bags reduce autoclave time.
Protect against dangerous tears and leaks with extra strong, high impact polypropylene biohazard disposal bags.
Red bags printed with standard biohazard warning symbol.
Pass ASTM 1709 Dart Impact and ASTM 1922 Tear Resistance Tests.
Extra heavy-duty; 0.05mm (2 mil) thick blended polymer.
Autoclavable to 135°C (275°F).
Feature a sterilization indicator patch that darkens when exposed to steam sterilization for 20 minutes.



Part No.	Dimens. (W x H)	Gal. Capacity	Qty	List
B415-389	36 x 48cm (14 x 19")	2 to 4	200/bx	\$287.25
B415-390	48 x 58cm (19 x 23")	5 to 9	200/bx	\$418.80
B415-392	79 x 96cm (31 x 38")	20 to 30	200/bx	\$1013.63
B415-393	94 x 122cm (37 x 48")	40 to 50	100/bx	\$765.53
B415-391	64 x 89cm (25 x 35")	13 to 20	200/bx	\$798.90

Clavies® Transparent Autoclavable Bags

High temperature bags reduce autoclave time.
These transparent autoclave bags are made of 0.05mm (2 mil) thick polypropylene for discarding used Petri dishes, membrane filters, multi-well cell culture plates, cell culture flasks, culture plates, pipettes and more.
Three largest sizes hold 65, 200 and 240 standard Petri dishes respectively.
Steam autoclavable at 135°C (275°F).



Part No.	Dimensions (W x H)	Qty	List
B415-421	20 x 25cm (8 x 10")	100/cs	\$79.92
B415-424	25 x 25cm (10 x 10")	100/cs	\$87.08
B415-422	20 x 30cm (8 x 12")	100/cs	\$94.67
B415-423	20 x 38cm (8 x 15")	100/cs	\$115.25
B415-425	25 x 30cm (10 x 12")	100/cs	\$102.33
B415-426	25 x 38cm (10 x 15")	100/cs	\$120.25
B415-427	30 x 61cm (12 x 24")	100/cs	\$132.00
B415-428	61 x 76cm (24 x 30")	100/cs	\$303.83
B415-429	61 x 91cm (24 x 36")	100/cs	\$347.67

Biohazard Disposal Bags – Clear

Low cost, available plain, non-printed or with biohazard label and indicator patch.
Great economical solution for safe disposal of used pipettes, petri dishes, multi-well cell culture plates, cell culture flasks, culture plates, membrane filters and other biohazard wastes.
Transparent polypropylene; 0.03mm (1.5 mil) thick.
Pass ASTM 1709 Dart Impact and ASTM 1922 Tear Resistance Tests.
High temperature autoclavable at a maximum of 135°C (275°F).
Plain, non-printed bags can also be used as conventional trash can liners.
Bags with biohazard warning label contain standard biohazard warning symbol and precautionary procedures in four languages: English, French, German and Spanish; sterilization patch darkens when subjected to steam sterilization.
Thickness: 1.5 mil



A. Without Biohazard Warning Label or Sterilization Indicator Patch

Part No.	Gal. Capacity (W x H)	Qty	List
B415-380	10 to 12; 61 x 76cm (24 x 30")	100/ bx	\$187.65
B415-378	1 to 3; 30 x 61cm (12 x 24")	100/bx	\$81.00
B415-382	15 to 20; 61 x 91cm (24 x 36")	100/bx	\$223.65

B. With Biohazard Warning Label and Sterilization Indicator Patch

Part No.	Gal. Capacity (W x H)	Qty	List
B415-381	10 to 12; 61 x 76cm (24 x 30")	100/bx	\$213.83
B415-383	15 to 20; 61 x 91cm (24 x 36")	100/bx	\$230.33
B415-379	1 to 3; 30 x 61cm (12 x 24")	100/bx	\$85.13

Sample bags can be found
on pages 369-371.

Holders/Stands

Poxygrid® Bench-Top Biohazard Bag Holder Kit

Handy disposal system for labs and medical offices.

Economical and convenient, this benchtop disposal system is perfect for collecting pipette tips, microcentrifuge tubes, etc. during daily use.

Rectangular steel wire frame holds a polyethylene bag 22 x 28cm (8 1/2 x 11"); coated in easy to clean, durable, orange color epoxy.

Snug fitting polypropylene plastic cover helps hold the bag securely in place.

Reusable; can be cleaned by hand or in automated dish washers; autoclavable.

Cover provides compliance with 29 CFR 1910.1030(d)(2)(xiii)(A), which requires a cover on any container used to store, transport or ship biohazardous wastes.

Kit includes 100 Bench Top Biohazard Bags (B415-394); can also be used with Clavies Autoclavable Bags (B415-422).



Part No.	Description (L x W x H)	Qty	List
B415-440	Kit - Includes Bag Holder, Cover & Bags	100/pk	\$70.95
B415-439	Cover Only for Poxygrid® Bag Holder; 12.7 x 8.9 x 1.6cm	1/ea	\$16.05
B415-441	Poxygrid® Wire Frame Only; 8.5 x 12.7 x 21.6cm	1/ea	\$43.17

Biohazard Bag Holders – Clavies

Keep bags open and securely supported on these economical, lightweight, stainless steel wire frames.

Polypropylene bottom serves as a containment tray in the event of bag leakage and is safety orange in color for easy identification as a biohazard containment system.

Small bag holder is ideal for benchtop use.

Assembles in minutes and is permanent.

Dishwasher-safe; autoclavable at 121°C (250°F).

Use B415-438 reusable, sanitary cover with medium and large Clavies® Biohazard Bag Holders.



Part No.	Size / Height	Qty	List
B415-435	Small / 47cm (18.5")	1/ea	\$65.63
B415-436	Medium / 54.6cm (21.5")	1/ea	\$94.50
B415-437	Large / 69.6cm (27.2")	1/ea	\$103.20

Clavies Biohazard Bag Holder Cover

Opens with a single touch; Sanitary, reusable.

Dishwasher and autoclave-safe, the reusable Clavies® Biohazard Bag Holder Cover opens quickly and easily by pressing the built-in release tab - no batteries required.

Orange cover fits both the Medium and Large sizes of the Clavies® Biohazard Bag Holders (B415-436 and B415-437).

Features a smooth 10.2 x 10.2cm (4 x 4") area on top for applying labels.

Installs in seconds; improves the sanitation of these biohazardous waste containers.

Center panel opens to an upright position; large 20.5 x 24.4cm (8 x 9½") opening.

Autoclavable at 121°C (250°F).



Part No.	Description	Qty	List
B415-438	31.5 x 31.5cm (12½ x 12½")	1/ea	\$44.55

Biohazard Sharp Object Safety Pouch and Stand

Hard-to pierce pouch; Convenient for labs, clinics and medical offices.

This hard to pierce pouch offers protection against the danger of being cut by contaminated sharp objects and is convenient for labs, clinics and medical offices. Use with the Poxygrid® Safety Pouch Stand for easy bench-top collection.

Solid paperboard pouch is 10 mil thick.

Remains open in an oval shape by folding the bottom flaps.

After filling, the top flaps close and lock in place for safe disposal.

Printed with bold biohazard symbol.

Pouch measures 14 x 33cm (5 1/2 x 13") flat.

Bright orange, epoxy-coated steel wire stand provides a stable support to keep the Biohazard Sharp Object Safety Pouch upright and open for easy access, measures: 10 x 13 x 20cm H (4 x 5 1/2 x 8").



Part No.	Description	Qty	List
M440-022	Poxygrid® Safety Pouch Stand	1/ea	\$38.85
M440-021	Biohazard Sharp Object Safety Pouch	200/pk	\$322.25



Bag Holders – Poxygrid

Holds bags in place and provides a large opening for waste.
 Sturdy wire holder keeps bags open while a separate hooked ring that rests over the top keeps them securely in place.
 Bright biohazard orange colored epoxy-coated steel wire.
 Chemical and corrosion-resistant; unaffected by organic solvents, salts, weak acids and weak alkalis.
 Will withstand a temperature range of -223°C (-369°F) to 121°C (250°F).
 Autoclavable.



Part No.	Diameter	Height	Fits Bag Size	Qty	List
B415-430	18.5cm (7.3")	52cm (20.5")	30W x 61cmH (12 x 24")	1/ea	\$126.00

Bio-bin® M Stand

"M" Stand for use with 30L Bio-Bin® waste disposal container.
 Product Dimensions (L x W x H): 16.85 x 7.12 x 11.25"



Part No.	Description	Qty	List
M461-066	"M" Stand	1/ea	\$231.77

Bio-bin® U Stand

"U" Stand for use with 6L Bio-Bin® waste disposal container.
 Product Dimensions (L x W x H): 7.1 x 10.8 x 12.32"



Part No.	Description	Qty	List
M461-064	"U" Stand	1/ea	\$66.77

Bio-bin® Z Stand

"Z" Stand for use with 6L Bio-Bin® waste disposal container.
 Product Dimensions (L x W x H): 6.7 x 6.7 x 7.87"



Part No.	Description	Qty	List
M461-065	"Z" Stand	1/ea	\$66.77

Biohazard Containers

Bio-bin® Waste Disposal Containers

- Space efficient, light weight fold-flat design
- Built-in lid and handles
- Temporary & permanent seals
- Stackable post use. UN 3291 Approved
- Printed user instructions & user ID/date information on lid
- Waterproof construction
- Built-in super absorbent Bio-matt™ to soak up any excess liquid in Bio-bin
- Autoclavable. Use with #M460-001 Autoclave Sterility Tape
- Supplied with 2 x 2" Biohazard Waste Labels
- Reorder information printed on the Bio-bin



Part No.	Description / Capacity Liters (L x W x H)	Qty	List
M461-061	Loop / 2.5 (9 x 4.3 x 4.7)	50/cs	\$317.65
M461-062	Pipette / 6 (6 x 6 x 15)	40/cs	\$596.12
M461-063	Floor / 30 (11 x 11 x 16.3)	10/cs	\$310.97

Pipette Tip Disposal Box

Quick flip of port cover makes tip ejection easy.
 Convenient for one-handed disposal of used pipette tips. Eliminates any need to handle pipette tips used with hazardous fluids.
 The 3/8" (10 mm) thick acrylic provides protection from Beta radiation.
 The large, hinged lid allows easy disposal of contents.
 Suggest using in conjunction with small Biohazard Disposal Bags, if hazardous fluids are not acrylic friendly.



Part No.	Description	Qty	List
M220-360	154 x 171 x 206mm	1/ea	\$155.61

Sharps Containers

Easy to use and transport.
 Provides safe disposal of syringes, needles and other small sharps.
 Stackable to reduce storage space before use.
 1.0 L capacity (Quart) with a clear lid to view fill level.
 Slide access lid for temporary and final closures for safety and security.
 Built-in needle removal port, preventing direct contact with sharps.
 Compatible with the Droplet® Blood Collection Tray.
 Measures 4.5 x 4.5 x 7.5" (11.5 x 11.5 x 19.2cm).



Part No.	Description	Qty	List
M220-097	Yellow	18/pk	\$98.37
M220-096	Red	18/pk	\$98.37

Multi-purpose Sharps Container 1-Piece

Preassembled and offer a patented one-way funnel valve to minimize needle sticks and overfilling.
 Convenient, vertical "point first" drop.
 Red Base.



Part No.	Dimensions (H x W x D)	Lid/Locking Type	Volume	Qty	List
X114-229	13.25 x 9 x 5.25"	Non-Locking Funnel Lid	8.2 Quart	1/ea	\$194.73
X114-222	14 x 7.5 x 10.5"	Locking Funnel Lid	5 Gallon	1/ea	\$263.10
X104-330	25.5 x 13.5 x 13.5"	Non-Locking Verticle Entry Lid	16 Gallon	1/ea	\$237.61

Multi-purpose Sharps Container Sharps-A-Gator™ 1-Piece

Designed for the convenient disposal of large instruments and high volumes.
 The versatile lid features both a wide opening for larger instruments and an integrated sharps port for smaller items.
 Gasketed containers for spill resistance.
 This product is required to be reported under California Proposition 65.
 Red Base.



Part No.	Dimensions (H x W x D)	Lid/Locking Type	Volume	Qty	List
X120-184	15.5 x 21.5 x 12"	Non-locking Verticle Entry Lid	10 Gallon	1/ea	\$237.61

Liquid Waste Box

Liquid Waste Storage Box is designed to accommodate the included 1 gallon jug (M460-348 Jug).
 The enclosed waste storage box with cover has an opening in the lid that will accept the included wide mouth funnel (C420-056 Funnel) for easy disposal of liquid radioactive material.
 Enclosed storage waste box with hinged cover is taller to accommodate the funnel inside the unit. Excess residue can be rinsed from the funnel into jug to further reduce exposure. Supplied with non-skid feet, jug and funnel.
 6.5" L x 6.5" W
 All Dynalon Beta protection products are manufactured in the United States using Acrylic sheet certified by an independent organization to be 100% effective in shielding against beta radiation.
Important Cleaning Note: Should the acrylic surfaces of acrylic products need cleaning, DO NOT USE ANY SOLVENTS OR ABRASIVES (alcohol, acetone, etc...) USE OF THESE MATERIALS WILL CAUSE CRACKING OR CRAZING OF THE ACRYLIC. For general cleaning wash the surface with a mild detergent and soft cloth, then rinse thoroughly with clean water.



Part No.	Description	Qty	List
C420-018	12" Height Wet Waste Box w/ Cover	1/ea	\$307.12
C420-019	18.5" Height Wet Waste Box Enclosed Model	1/ea	\$464.62

Biohazard Disposal Can with Lift-up Cover

Bright red safety disposal container is suitable for biological/biohazard materials, broken glass, recyclables or other waste and sized for benchtop or floor placement.
 One piece hinged lid protects users from contact with contents; helps retain odors and contain airborne contaminants.
 Molded of polypropylene for long service life.
 Puncture-resistant; autoclavable at 121°C (250°F).
 19 x 23" autoclave bags (B415-385 or B415-390) fit perfectly and are secured with an internal stainless steel wire bar.



Part No.	Description (L x W x H)	Qty	List
B415-445	22.5 x 30.5 x 29cm (9 x 12 x 11 1/2")	1/ea	\$77.63



Glass Disposal

Non-Hazardous Disposal Box

- Non-Hazardous Disposal Box features colorful graphics for quick identification
- Assembly instructions on each box
- Tough 2 mil polyethylene liner
- Folding design for shipping and storage
- Closure assures a safe, hygienic disposal
- Supplied in a case of 6 boxes



Part No.	Description (L x W x H)	Opening Diam.	Qty	List
M460-384	Floor (12 x 12 x 27")	7"	6/cs	\$94.62

Cover for Glass Disposal Carton

Opens with a simple touch; sanitary, reusable.

Reusable plastic carton lid provides a wider opening 20.5 x 24.4cm (8" x 9½") permitting safer and more sanitary deposit of wastes. Store the disposable cardboard lid under the bottom of the carton and, when carton is full, simply remove the reusable Disposal Carton Cover, replace with the cardboard lid and dispose of the carton in the usual fashion.

Opens quickly and easily by pressing the built-in release tab - no batteries required.

Green center panel matches printing on the glass disposal cartons; provides fast visual recognition of the waste stream.

Fits any disposal carton with a 31.5 x 31.5cm (12½ x 12½") opening including M440-577 glass disposal floor standing carton.

Features a smooth 10.2 x 10.2cm (4 x 4") area for applying labels.

Reusable, wash as needed; autoclavable at 121°C (250°F).

Dishwasher and autoclave-safe.



Part No.	Frame/Panel Color	Dimensions	Qty	List
M440-018	White/Green;	31.5 x 31.5cm (12½ x 12½")	1/ea	\$45.98

Glass Disposal Box

Glass Disposal Boxes feature colorful graphics for quick identification.

- Assembly instructions on each box
- Tough 2 mil polyethylene liner
- Folding design for shipping and storage
- Closure assures a safe, hygienic disposal
- Range of convenient sizes
- Replacement PE bags available for floor model glass disposal boxes



Part No.	Description (L x W x H x O)	Qty	List
D300-012	Floor, 12" x 12" x 27" x 7"	6/cs	\$96.53
D300-013	Bench, 8" x 8" x 10" x 5"	6/cs	\$64.50
D300-015	Intermediate, 12" x 12" x 20" x 7"	6/cs	\$96.53
M462-150	Bags for Floor, 28" x 2.25mil x 36" x n/a	6/cs	\$365.53

Disposal Cartons for Glass

Safe disposal for lab glassware.

Sturdy corrugated cardboard receptacle is supplied with a 2 mil thick, clear polypropylene bag to contain broken glass fragments and spilled liquids. When the box is full, lift the flap opening to a closed position and the entire unit is ready for disposal.

Printed with eye-catching graphics in four languages (English, German, French, Spanish).

Packaged flat to save space and shipping costs; quickly assembled.

Available in two sizes.

Floor model can be used with M440-018 sanitary, reusable cover.

Does not qualify as a DOT container.



Part No.	Description (L x W x H)	Qty	List
M440-577	Floor; 30 x 30 x 69cm (12 x 12 x 27")	6/pk	\$136.58
M440-578	Benchtop; 20 x 20 x 25cm (8 x 8 x 10")	6/pk	\$98.33

Incinerator Disposal Containers

Burn-Up Bin

- Burn-Up Bins feature colorful graphics for quick identification
- Assembly instructions on each box
- Tough 2 mil polyethylene liner
- Folding design for shipping and storage
- Closure assures a safe, hygienic disposal
- Range of convenient sizes



Please note: there are no replacement bags for the Burn-Up Bin. These boxes are to be incinerated after use.

Part No.	Description (L x W x H)	Opening Diam.	Qty	List
D300-014	Floor (12 x 12 x 27)	7"	6/cs	\$96.53
M460-383	Bench (8 x 8 x 10)	5"	6/cs	\$63.27
M460-385	Intermediate (12 x 12 x 20)	7"	6/cs	\$96.53

Biohazard Incinerator Cartons

Safe disposal, no need to transfer contents.

This corrugated cardboard receptacle is perfect for containing biohazardous waste slated for incineration. When the box is full, pull the flap to a closed position and the entire unit can be placed in the incinerator.

Tabs along the top edge keep a clear 0.038mm (1.5 mil) thick polyethylene biohazard bag from slipping out of place.

Snug-fitting lid has a flap for easily inserting waste material.

Printed with large, bright, biohazard graphics and instructions in four languages (English, Spanish, French, German).

Packaged flat to save space and shipping costs; carton and inner bag can be assembled in seconds.

Available in sizes to suit benchtop or floor use.

Optional, reusable, sanitary cover (M440-017) for floor model sold separately.



Part No.	Description (L x W x H)	Qty	List
M440-019	Floor; 30.5 x 30.5 x 68.5cm (12 x 12 x 27")	6/cs	\$141.08
M440-020	Benchtop; 19.6 x 19.6 x 25.4cm (8 x 8 x 10")	6/cs	\$101.03

Cover for Biohazard Incinerator Disposal Carton

Opens with a single touch; sanitary, reusable.

Dishwasher-safe and autoclave-safe, the reusable Disposal Carton Cover opens quickly and easily by pressing the built-in release tab – no batteries required! The cover fits any disposal carton that has a 31.5 x 31.5cm (12½ x 12½") opening including M440-017 Biohazard Incinerator Floor Standing Carton. Store the disposable cardboard lid on the bottom of the carton and when carton is full, simply remove the reusable Disposal Carton Cover, replace with the cardboard lid and dispose of the carton in the usual fashion.

Features a smooth 10.2 x 10.2cm (4 x 4") area on top for applying labels.

Center panel is red to match the printing on the Biohazard disposal cartons; provides fast visual recognition of the waste stream.

Provides a wider opening 20.5 x 24.4cm (8 x 9½") permitting safer and more sanitary deposit of wastes.

Reusable, wash as needed; autoclavable at 121°C (250°F).



Part No.	Frame/Panel Color	Dimensions	Qty	List
M440-017	White/Red	31.5 x 31.5cm (12½ x 12½")	1/ea	\$45.98

Plastic Recycle Containers

Plastic Recycle Box

- Plastic Recycle Box features colorful graphics for quick identification
- Assembly instructions on each box
- Tough 2 mil polyethylene liner
- Folding design for shipping and storage
- Closure assures a safe, hygienic disposal



Part No.	Description (L x W x H)	Opening Diam.	Qty	List
M461-070	Floor (12 x 12 x 27")	7"	6/cs	\$100.38



Solvent Waste

EZwaste® Safety Funnel, Stainless Steel

Features an overflow protection that will prevent spillage of liquid during filling. It comes with an attached lid that will keep VOCs from evaporating into the air. Safety funnel also features a removable and easy to clean flame trap that will prevent the liquid waste from igniting. Applications include but not limited to: Pharmaceutical, biotech and laboratories.

Made from high quality and chemically resistant stainless steel.

Overflow protection.

Available in S70, 83B and 120mm VersaCap®.

Material: Stainless steel

Overall Height: 16"

Funnel Diameter: 5.5"

Funnel tube Diameter: 1.75"



Part No.	Cap Size	Overall Height	Qty	List
C500-281	120mm	16"	1/ea	\$964.98
C500-548	S70	13"	1/ea	\$924.98
C500-549	83B	16"	1/ea	\$949.98

EZwaste® 4" & 8" Safety Funnel, HDPE

Features a latching lid with gasket to create an air-tight seal and to keep VOCs from evaporating into the air. Safety funnels can be used as both a sealed waste container and a solvent funnel. Safety funnel also has a built-in interior filter to reduce the loss of stir sticks or other particles in the waste liquid. Applications include but not limited to: Pharmaceutical, biotech and laboratories.

Prevents 99.9% of VOCs emission.

11" stem reduces the emission of VOCs in the lab.

Made from HDPE Material.

Meets most local, state and federal safety regulations and requirements.

Reusable and resists nearly all corrosive chemicals.

Material: HDPE

Stem Length: 11"



Part No.	Cap Size	Capacity	Dimensions (L x W)	Stem Length	Qty	List
C500-550	38-430	450ml	7" x 5"	11"	1/ea	\$222.22
C500-551	53mm	450ml	7" x 5"	11"	1/ea	\$277.48
C500-553	83mm	450ml	7" x 5"	11"	1/ea	\$299.98
C500-552	70mm	450ml	7" x 5"	11"	1/ea	\$299.98
C500-554	38-430	2L	11" x 9"	11"	1/ea	\$224.98
C500-555	53mm	2L	11" x 9"	11"	1/ea	\$299.98
C500-557	83B	2L	11" x 9"	11"	1/ea	\$299.98
C500-556	70mm	2L	11" x 9"	11"	1/ea	\$299.98

EZWaste® HD Filter Kit

The HD Filter Kit, VersaCap® EZwaste® Solvent Waste System is designed to be an affordable solution for HPLC liquid waste disposal. Each system is manufactured to safely collect waste from two HPLC machines. This system features an activated carbon filter which traps volatile organic compounds from being released into the air. This prevents chemicals from being inhaled by lab workers and provides an easy mechanism of disposal for vapor wastes. The EZwaste® Solvent Waste system also features a closed loop design which protects against leaks and spills, improving overall lab safety.

* Depending on application, carbon exhaust filter life cycle may vary.

Tube fittings secure waste tubes to carboy providing the closed system necessary to prevent spills (plugs included for unused ports).

90° adapter included for maximum storage flexibility.

Replaceable sulfur cured EPDM gasket for high chemical compatibility against aggressive organic solvents.

Size: 83mm

Material: Polypropylene

Filter Length: 6.97" (177mm)

Filter Base Diameter: 1.89" (48mm)

Filter Top Diameter: 1.73" (44mm)

Filter thread: 1/4"



Part No.	OD Tubing Ports	Hose Barbs	Qty	List
C500-266	4 x 1/8" & 3 x 1/4"	1	1/ea	\$262.38
C500-267	4 x 1/8" & 4 x 1/4"	0	1/ea	\$274.88
C500-264	4 x 1/8" & 3 x 1/4"	0	1/ea	\$262.30
C500-265	6 x 1/8"	1	1/ea	\$262.38

Safety Vent 20L Round Carboy HDPE with VersaCap® 83mm EZwaste® Solvent Waste System

Designed to be an affordable solution for HPLC liquid waste disposal.

Each system is manufactured to safely collect waste from two HPLC machines. This system features an activated carbon filter which traps volatile organic compounds from being released into the air. This prevents chemicals from being inhaled by lab workers and provides an easy mechanism of disposal for vapor wastes. The EZwaste® Solvent Waste system also features a closed loop design which protects against leaks and spills, improving overall lab safety. Each system includes a 4L, 5L, 10L or 20L HDPE carboy, two 83mm VersaCap® (one open top for waste collection and one closed top for safe transport), 4 Ports for 1/8" OD Tubing, 3 ports for 1/4" OD Tubing, 1 port for a carbon exhaust filter, 1 carbon exhaust filter and plugs for unused ports.

* Depending on application, carbon exhaust filter life cycle may vary.

Tube fittings secure waste tubes to carboy providing the closed system necessary to prevent spills (plugs included for unused ports).

90° adapter included for maximum storage flexibility.

Replaceable sulfur cured EPDM gasket for high chemical compatibility against aggressive organic solvents.

Height w/o Cap:	20" (508mm)	Height w/ Cap:	20.25" (514.35mm)
Diameter:	10.5" (266.7mm)	Volume:	20L
Bottle Material:	HDPE	Cap Material:	Polypropylene
Filter Length:	6.97"(177mm)	Filter Base Diameter:	1.89"(48mm)
Filter Top Diameter:	1.73"(44mm)	Filter Thread:	1/4"



Part No.	OD Tubing Ports	Hose Barbs	Qty	List
C500-365	4 x 1/8" & 3 x 1/4"	0	1/ea	\$437.48
C500-367	4 x 1/8" & 3 x 1/4"	1	1/ea	\$437.48
C500-368	4 x 1/8" & 4 x 1/4"	0	1/ea	\$437.48
C500-366	6 x 1/8"	1	1/ea	\$437.48
C500-364	6 x 1/8"	0	1/ea	\$437.48

Safety Cans

Oval Safety Can for Flammables, S/S Hardware, Flame Arrester

Constructed of high-density polyethylene to stand up to tough acids and corrosives, as well as heat, cans are dent, puncture and chip resistant. The self-closing cap, pressure-relief mechanism and flame arrester work together to prevent ignition sources from entering, without restricting liquid flow in or out of the can. All cans feature stainless steel hardware and flame arrester for superior chemical resistance. FM approved. Carbon Insert – A patented conductive current-carrying carbon insert is embedded into the rib of containers, completing a ground path between the cover assembly and the flame arrester. When used with a grounding strip, this provides proper grounding and prevents the creation of a static arc during filling or pouring. The trigger mechanism enables pouring small quantities of liquids. A leak-tight, self-closing cap prevents spillage and automatically vents guarding against explosion. Stainless steel flame arrester protects against external heat sources. White poly cans offer liquid level visibility of dark colored chemicals.



W X H X L:	4.625" x 9.5" x 7.625"
Fill/Pour Hole:	1.45" (37mm)
Compliance:	NFPA, OSHA

Part No.	Description	Qty	List
S842-366	White; 1 Gallon, Self Close Cap, Poly	1/ea	\$253.75

Fire Blanket

Smothers Small Fires Quickly!

Extinguishes small class "A", light oil and grease fires without the mess of foam or chemical agents. An excellent supplement to existing safety equipment, the Fire Blanket is packaged in an instant access container that can be hung on the wall or stored in any accessible location.

Made of woven fiberglass with a textured surface; all edges are serged with fireproof Kevlar® thread

Close weave greatly reduces the amount of atmospheric oxygen available to feed the fire

May also be wrapped around the head and body for protection against flames and embers when fleeing a burning room or for protection from splashing molten metal.

Part number: M440-601



Safety Cans w/Quick Disconnect

Hands-free solvent collection: Solvent flows freely from your process into the container through tubing making it suitable for either pump-fed or gravity-flow HPLC waste methods. Two disconnect fittings, one intake and one vent, eliminate back pressure in liquid flow disposal line and provide controlled handling of vapor.

Durability and safety: Translucent polyethylene container allows quick visual inspection of liquid level. Pouring spout is equipped with a stainless steel flame arrester, which reliably dissipates heat to prevent flashback ignition. Spring-loaded, sealed lid automatically vents to guard against explosion. Control odors with a coalescing/carbon filter.

Quick-Disconnect system: Easy-on, easy-off mechanism offers detachment of the can from the process without leaks, drips or vapor release. Once disconnected, the container is automatically sealed to prevent spills.

Valved quick-disconnect fittings automatically close when decoupled to prevent vapor or liquid release.

Stainless-steel fittings offer PTFE O-rings on standard containers. Also available with EPDM O-ring seals on customized cans.

Coalescing carbon filter. Optional filters are for use with only round style cans.

Easy-carrying handle with fixed position latch keeps spring loaded cover open for convenient pouring during disposal.

Economically priced polypropylene barbed fittings offer EPDM O-rings.

Translucent color lets you check liquid level at a glance.

Quick-Disconnect Disposal Safety Can with Fittings for 3/8" Tubing

Can/Container Material Specifications:	Polyethylene	Fill/Pour Hole:	3.65" (93mm)
Approvals:	FM	Compliance:	NFPA, OSHA



Part No.	Description	Qty	List
S842-321	5 Gallon; 20" H x 12" Outer Dia.	1/ea	\$1670.65

Safety Drums

Open Head 30 Gallon Poly Drum

Constructed of blue blow-molded high-density polyethylene (HDPE) with UV inhibitors, durable and lightweight, weather and chemical resistant and has a white lid with a metal lever-lock band closure.

Ideal for safe storage, handling and transportation of hazardous materials, spill containment and cleanup of hazardous materials, original shipping container, bio waste disposal and incineration.

Capacity Gal (L):	30 (113.6)
Color:	Blue
Closure Type:	Metal Lever-Lock
UN/DOT Rating:	1H2/X120/S
UN/DOT Rating:	1H2/Y180/S
Compliance:	DOT 49 CFR 173.12
Dimensions I.D.	
Top X Bottom:	19" (48.5cm) x 16.25" (41.3cm)
Height:	26.325" (67cm)
Container:	16Gal (18.9L)



Part No.	Description	Qty	List
M461-813	30 Gallon Drum	1/ea	\$215.50

Safety Box

Safety box is used to carry tubes or sample containers under safe conditions.

Contains silicone gasket and 4 side-locks for security.

Polycarbonate Safety Box is provided with a stainless steel handle and user sheet with instructions approved by WHO.

Safety box rack is designed for 10 containers up to 200 ml size and 3 containers 30 ml size.

Polycarbonate Safety Box with Stainless Steel Handle.

Completely Autoclavable.

Bio-hazard symbol on the box.

Part number: M461-430



FUME HOODS

Clear View Fume Hoods

Safely vent noxious or potentially hazardous fumes and dust using Scienceware® Clear View Fume Hoods. They have a sleek modern style that is functional and aesthetically pleasing.

Perfect for laboratory, classroom or industrial applications.

Visibility into the fume hood is possible from all sides.

3-position sliding sash can be completely lowered or set at a choice of two intermediary heights.

Top sitting 6" O.D. vent opening(s) allow easy connection to exhaust systems.

Compact 1 x 1 Model won't consume valuable space; single exhaust vent opening.

2 x 1 Model; twice the work space as 1 x 1; two exhaust vent openings (6" O.D.).

Clear polycarbonate plastic provides optimum visibility and durability.

Due to the unspecified nature of their use and the environment in which they are used, glove boxes, glove box gloves and accessory items and fume hoods may only be returned due to shipping damage reported within two days of receipt and only if they have not been used. Any returned product that has come in contact with process materials or as advised when receiving a RMA number must include a Decontamination Form.



Part No.	Description	Overall Dims. (W x D x H)	Interior Dims. (W x D x H)	Qty	List
M441-578	1 x 1 Fume Hood	65.7 x 61.0 x 66.3cm	61.0 x 50.8 x 61.0cm	1/ea	\$2749.05
M441-579	2 x 1 Fume Hood	111.4 x 61.0 x 66.3cm	106.7 x 50.8 x 61.0cm	1/ea	\$3222.90

Tapered Rear Exhaust Fume Hoods

These corrosion-proof polypropylene plastic exhaust hoods are ideal for tanks and vats.

Draws a stream of air across the top of the tank away from the operator.

Designed to rest on the rear edge of tanks.

Due to the unspecified nature of their use and the environment in which they are used, glove boxes, glove box gloves and accessory items and fume hoods may only be returned due to shipping damage reported within two days of receipt and only if they have not been used. Any returned product that has come in contact with process materials or as advised when receiving a RMA number must include a Decontamination Form.



Part No.	W x H	Slot (H x D)	Stack O.d.	Material Thickness	Qty	List
M441-575	61 x 31cm	7.6 x 7.6cm	15cm	4.8mm	1/ea	\$1065.75
M441-576	91 x 46cm	7.6 x 7.6cm	20cm	4.8mm	1/ea	\$1379.08
M441-577	122 x 61cm	7.6 x 10.2cm	20cm	6.4mm	1/ea	\$1747.83

Small Molded Benchtop Fume Hood

Designed for small facilities or installations in which a number of fume hoods are needed, this unit is excellent for use in schools, junior colleges and universities. One-piece shell molded of chemical resistant polyethylene with rounded inside corners for easy cleaning. Clear acrylic sash slides on a track featuring stop pins for open, closed or intermediate positions; bottom gap allows for continuous air flow.

Front opening: 56W x 30cmH (22 x 12") Overall dimensions: 69 x 33 x 56cmH (27 x 13 x 22")

Stepped exhaust duct can be used with either a 12 or 15cm (4 or 6") diameter duct.

Exhaust system capable of drawing 200 cfm (free air) is recommended.

Due to the unspecified nature of their use and the environment in which they are used, glove boxes, glove box gloves and accessory items and fume hoods may only be returned due to shipping damage reported within two days of receipt and only if they have not been used. Any returned product that has come in contact with process materials or as advised when receiving a RMA number must include a Decontamination Form.



Part No.	Dimensions (L x W x H)	Qty	List
M441-570	69 x 33 x 56cm (27 x 13 x 22")	1/ea	\$753.66

Large Molded Fume Hood

Rounded inside corners for easy cleaning.

This fume hood features a one-piece shell molded of polyethylene plastic with a clear acrylic sash that slides on inside tracks. Sash can be set in an open, closed or intermediate position; remains open slightly when in closed position to facilitate continuous air flow.

Front opening: 88 x 36cmH Stack O.D.: 15cm

Exhaust system capable of drawing 350 cfm (free air) is recommended.

Overall dimensions: 107 x 51 x 76cmH

Shipping weight: 25.5kg (56 lbs.)

Due to the unspecified nature of their use and the environment in which they are used, glove boxes, glove box gloves and accessory items and fume hoods may only be returned due to shipping damage reported within two days of receipt and only if they have not been used. Any returned product that has come in contact with process materials or as advised when receiving a RMA number must include a Decontamination Form.



Part No.	Dimensions (L x W x H)	Qty	List
M441-571	107 x 51 x 76cm (42 x 20 x 30")	1/ea	\$2006.75



Large Molded Fume Hood with Baffle

Low Turbulence Air flow. This fume hood features a one-piece shell molded of polyethylene plastic with a flat internal baffle and a clear acrylic sash that slides on inside tracks. Internal baffle across the rear of the shell slopes forward, leaving space beneath for air flow to sweep the deck and space above in order to efficiently remove airborne vapors. Sash can be set in an open, closed or intermediate position; remains open slightly when in closed position to facilitate continuous air flow.

Front Opening: 88 x 36cmH Stack O.D.: 15cm

Exhaust system capable of drawing 350 cfm (free air) is recommended.

Overall dimensions: 107 x 51 x 76cmH

Shipping weight: 25.5kg (56 lbs)

Due to the unspecified nature of their use and the environment in which they are used, glove boxes, glove box gloves and accessory items and fume hoods may only be returned due to shipping damage reported within two days of receipt and only if they have not been used. Any returned product that has come in contact with process materials or as advised when receiving a RMA number must include a Decontamination Form.



Part No.	Dimensions (L x W x H)	Qty	List
M441-572	107 x 51 x 76cm (42 x 20 x 30")	1/ea	\$23.54

Protector Premier Laboratory Hoods

Incorporate a sleek interior with a molded one-piece fiberglass liner, the signature feature of Labconco's leading line of fume hoods since 1961. The one-piece liner of specially-formulated, fiberglass-reinforced polyester offers corrosion and fire resistance and easy clean up. Without seams, the interior has fewer points of deterioration for longer life. These hoods are suitable for providing personal protection needed for general chemistry applications involving fumes and vapors. They meet the SEFA-1 standard of a low velocity, high performance hood and may be safely operated as low as 60 fpm. Choose from hoods designed to be used with a remotely-located blower or hoods that include a built-in blower — the only high performance hood with built-in blower available anywhere.

Explosion-proof hoods with built-in blower are available for laboratories with potentially explosive/flammable atmospheres (Class 1 Div I or II).



Part No.	Description	Blower Requirements	Qty	List
E513-441	4'	Remote Blower Required	1/ea	\$7335.48
E513-444	4'	Integral Blower Included	1/ea	\$9479.20
E513-457	5'	Remote Blower Required	1/ea	\$8211.29
E513-472	5'	Integral Explosion Proof Blower Included	1/ea	\$12725.81
E513-474	6'	Remote Blower Required	1/ea	\$9087.09
E513-488	6'	Integral Blower Included	1/ea	\$14729.03
E513-491	8'	Remote Blower Required	1/ea	\$12629.03

Remote Blowers & Exhausters

Remote blowers, designed for roof mounting, provide airflow for fume hoods and kother enclosures. Exhausters, designed for ductless applications, filter the air before returning it to the lab.

Intelli-Sense Coated Steel Blowers

Intelli-Sense multi-speed coated steel blowers feature a direct drive ECM motor, which consumes one third less energy than belt drive motors and a phenolic-coated impeller and housing. Unit comes with control box and 3 speed blower switch. Adjustable over broad range of airflows. Max of 350 CFM @ 0.08" SP to 1250 CFM @ 0.7" SP. 10" dia. inlet.



Hood Application: Low to Moderately High

Part No.	CFM	Inlet	Outlet	Qty	List
E511-757	< 1000, Between 1000-2000	10.78"	5.5"D x 10.00" W	1/ea	\$2725.81
E511-758	< 1000, Between 1000-2000	12.25"	7.0"D x 13.50"W	1/ea	\$2904.03

Intelli-Sense Fiberglass Blowers

Intelli-Sense multi-speed blowers are weatherized, direct drive, non-explosion-proof blowers controlled by a two or three position switch. Each blower has a reliable electronically commutated motor (ECM), which consumes one third less energy and is easier and less expensive to maintain than beltdrive motors. Speed control box included for mounting on top of customer-supplied fume hood, blower switch and label for multiple speed operation. Labconco Fiberglass Blowers are ideal for fume hood exhaust systems in moderate to highly corrosive conditions. The molded fiberglass reinforced polyester housing provides superior corrosion resistance.

Fiberglass Blowers are available that deliver as little as 275 CFM at 0.04" static pressure or up to 1050 CFM at 0.5" static pressure. Fiberglass Blowers are not recommended for use with Perchloric Acid.



Hood Application: Moderately to High Corrosive

Part No.	CFM	Inlet	Outlet	Qty	List
E511-800	< 1000, Between 1000-2000	10.38"	10.75"	1/ea	\$3847.58
E511-801	< 1000, Between 1000-2000	12.38"	12.75"	1/ea	\$3936.69

Intelli-Sense PVC Blowers

Intelli-Sense Multi-Speed Blowers are weatherized, direct drive, non-explosion-proof blowers controlled by a two or three position switch. Each blower has a reliable electronically commutated motor (ECM), which consumes one third less energy and is easier and less expensive to maintain than beltdrive motors.

Speed control box included for mounting on top of customer-supplied fume hood, blower switch and label for multiple speed operation.

Labconco PVC Blowers provide optimum chemical resistance and are made specifically to handle high order oxidizers such as perchloric acid. The housings are vacuum formed from unplasticized Type I polyvinyl chloride to handle highly corrosive applications. These blowers have a drain connection on the lower portion of the housing so that a washdown system can be utilized.



Hood Application: Moderately to High Corrosive, Perchloric Acid

Part No.	CFM	Inlet	Outlet	Qty	List
E511-811	< 1000, Between 1000-2000	10.38"	10.75"	1/ea	\$4943.14
E511-812	< 1000, Between 1000-2000	12.38"	12.75"	1/ea	\$5079.44

Intelli-Sense Polypropylene Remote Blowers

These direct-drive blowers are designed to handle the ventilation requirements of XPert Filtered Stations as well as other enclosures with high static pressure and low volume. Maximum 3600 RPM, 3 phase motor.



230V 50Hz

Part No.	HP	CFM	Inlet	Outlet	Qty	List
E511-325	1/2	<1000	5.88"	6.30"	1/ea	\$4544.36
E511-323	1/3	<1000	4.63"	4.92"	1/ea	\$3957.26

230V 60 Hz

Part No.	HP	CFM	Inlet	Outlet	Qty	List
E511-324	1/2	<1000	5.88"	6.30"	1/ea	\$4544.36
E511-322	1/3	< 1000	4.63"	4.92"	1/ea	\$3957.26

Coated Steel Belt Driven Blowers

Labconco Coated Steel Blowers have been specifically designed to meet the demanding day-to-day ventilation requirements for a wide range of hood choices. Durable and easy to maintain, Coated Steel Blowers are the recommended accessory for fume hoods used for low to moderately corrosive applications.

They are offered in a broad spectrum of capacities from 175 to 1960 CFM at static pressures to 1.50" H₂O.



Hood Application: Low to Moderately Corrosive

Part No.	HP	CFM	Inlet	Outlet (D x W)	Qty	List
E511-761	1/6	< 1000	10.78"	5.5" x 10.00"	1/ea	\$2070.56
E511-762	1/6 Explosion Proof	< 1000	10.78"	5.5" x 10.00"	1/ea	\$2856.26
E511-763	1/4	< 1000	10.78"	5.5" x 10.00"	1/ea	\$2191.13
E511-764	1/4 Explosion Proof	< 1000	10.78"	5.5" x 10.00"	1/ea	\$2961.70
E511-765	1/3	< 1000	10.78"	5.5" x 10.00"	1/ea	\$2227.82
E511-766	1/3 Explosion Proof	< 1000	10.78"	5.5" x 10.00"	1/ea	\$3003.63
E511-767	1/2	< 1000	10.78"	5.5" x 10.00"	1/ea	\$2269.76
E511-768	1/2 Explosion Proof	< 1000	10.78"	5.5" x 10.00"	1/ea	\$3077.02
E511-769	1/3	< 1000	12.25"	7.0" x 13.50"	1/ea	\$2316.94
E511-771	1/2	Between 1000-2000	12.25"	7.0" x 13.50"	1/ea	\$2416.53
E511-773	3/4	Between 1000-2000	12.25"	7.0" x 13.50"	1/ea	\$2662.90
E511-775	1	Between 1000-2000	12.25"	7.0" x 13.50"	1/ea	\$2856.55
E511-777	1 1/2	Between 2000-3000	12.25"	7.0" x 13.50"	1/ea	\$2961.70
E511-779	2	Between 1000-2000	12.25"	7.0" x 13.50"	1/ea	\$3014.11
E511-770	1/3 Explosion Proof	< 1000	12.25"	7.0" x 13.50"	1/ea	\$3113.71
E511-772	1/2 Explosion Proof	Between 1000-2000	12.25"	7.0" x 13.50"	1/ea	\$3234.27
E511-774	3/4 Explosion Proof	Between 1000-2000	12.25"	7.0" x 13.50"	1/ea	\$3648.38
E511-776	1 Explosion Proof	Between 1000-2000	12.25"	7.0" x 13.50"	1/ea	\$3978.63
E511-778	1 1/2 Explosion Proof	Between 2000-3000	12.25"	7.0" x 13.50"	1/ea	\$4088.71

Fiberglass Belt Driven Blowers
PVC Belt Driven Blowers & FilterMate Portable Exhausters
Are Also Available.

Call for Quote.



Protector Airo Filtered Fume Hoods

Labconco has combined its patented* fully-featured, containment-enhancing Protector® Hood design with Erlab's GreenFumeHood® (GFH) Filtration Technology to deliver a multi-use fume hood that requires no ducting. The Protector Airo Filtered Fume Hood delivers uncompromising safety to confined laboratory spaces. Erlab-proven Neutrodine® Filters— the heart of GFH Filtration Technology



The Protector Airo goes beyond the typical DH III ductless fume hood. A typical DH III ductless hood uses application-specific carbon filtration, which limits its ability to handle several chemicals at one time or adapt to new lab procedures. Instead, the Protector Airo uses Neutrodine Filters, the most comprehensive, safety-driven carbon filter available. This single molecular filter type can easily adsorb most chemicals and mixtures, taking the guesswork out of filter selection.

*Available only in the Americas

The Benefits of GFH Filtration Technology

Safety-driven safety sums up the benefits of GFH Filtration Technology, which allow the Protector Airo Filtered Fume Hood to perform well beyond the SEFA 9-2010 DH III definition (Table 1). The user's safety is maintained because the Protector Airo has built-in features that constantly monitor and prevent unsafe conditions without relying on user practices or modifications. These safeguards include:

- Controlled access to specified users via radio frequency identification (RFID) cards. Unauthorized personnel are prevented from operating the hood.

- Sensor package that detects primary filter breakthrough of solvent and acid fumes, laboratory air quality, sash position and temperature. Audio/visual alarms alert you to filter breakthrough, fan failure, high sash position and high temperature, which could indicate fire.

- Intelligent filter indication of type and status (primary or secondary). RFID technology scans each filter's serial number preventing saturated filter re-installation.

- Optional gGuard® communication software that offers real time monitoring by a designated facility manager. From a remote location, data such as usage authorization, filter usage, filter saturation detection, sash position and temperature may be observed and managed.

Features (All Models)

- By-pass airflow design
- Eco-Foil Air Foil with aerodynamic Clean-Sweep airflow openings
- Cord-Keeper slots on left and right side of air foil
- Glacier white powder-coated steel exterior
- Chemical-resistant, fiberglass-reinforced, composite panel liner
- Single piece, tempered safety glass vertical-rising sash with cable and pulled, sash weight and powder-coated aluminum sash handle and tracks with Clean-Sweep airflow openings. Sash stop at 16" sash opening height. Sash opens to 26" high for loading.
- Removable front and side panels and front and interior service access panels (except side window models) for access to plumbing and electrical wiring
- Pre-wired vapor-proof fluorescent lights providing up to 63 foot candles
- Factory-prepared for up to two electrical duplex receptacles and six service fixtures
- Factory-installed control panel with digital display, fan button and light button
- Roughing prefilter(s)
- Built-in exhaust fan(s) to maintain 60 fpm face velocity at 16" sash opening height
- Sound pressure of <60 dB(A) with sash at operating height and <48 dB(A) with sash closed
- Sensor package for primary filter breakthrough of solvent and acid fumes, laboratory air quality, sash position and temperature
- Audible/visual alarms for breakthrough detection, temperature ≥40° C (104° F), fan failure and high sash position opening.
- At ≥60° C (140° F), all fans stop.
- Three RFID cards included: User Card, Maintenance Card and Administrator Card (additional cards available upon request)
- Power cord with plug (or may be hard wired to top-mounted boxes)

Fixture Models May Feature

- Two pre-plumbed service fixtures with forged brass valves, lower right side with brass tubing for gas and lower left side with copper tubing for cold water. Components for converting either or both fixtures to air and vacuum are provided. Inlet tubing is not provided.
- One pre-wired GFCI electrical duplex receptacle on lower right side

Required Accessories (Not Included)

- Neutrodine Filters
- Work surface
- Base cabinet or stand

Optional Accessories

- HEPA Filter
- gGuard® Communication software
- ADA remote control

Part No.	Description	Qty	List
E513-474	3' Filtered Benchtop	1/ea	\$9087.09
E513-976	3' Filtered Benchtop Hood, 115V, 2 Fixtures, 1 Receptacle	1/ea	\$19300.81
E513-980	4' Filtered Benchtop Hood, 115V	1/ea	\$20522.18
E513-982	4' Filtered Benchtop Hood, 115V, 2 Fixtures, 1 Receptacle	1/ea	\$21523.38

Basic Laboratory Hoods

Basic Laboratory Hoods are designed specifically for laboratories, classrooms and light duty applications where safe ventilation is required. Constructed of powder-coated steel, Basic Hoods are economical and have a smaller overall height and depth than traditional hoods so they fit in areas with low ceilings or narrow aisles. Choose from 4 and 6-foot widths.

Both standard and built-in blower models are available.

Features (All Models)

- By-pass airflow design
- Durable glacier white powder-coated 16 gauge steel exterior and interior resists chemical exposure
- Vertical-rising tempered safety glass sash
- Adjustable two-piece baffle
- Curved air foil that lifts off for cleaning
- Removable front panel for access to electrical wiring
- Right side fixture panel factory-prepared to accept up to three service fixtures, one electrical duplex and one airflow monitor (kits sold separately)
- Right interior wall factory-prepared for one cupsink and turret (cupsink and turret kit sold separately)
- Powder-coated steel 10.3" OD exhaust connection
- ETL listed (115V models)
- CE conformity (220V models)

Vapor-Proof Models Feature

- Pre-wired 100-watt vapor-proof incandescent light
- Pre-wired light and blower switches

Explosion-Proof Models Feature

- Explosion-proof incandescent light fixture (requires installation; bulb not included)
- Furnished without switches and wiring as these must conform to local codes

Models with Blower Module Feature

- Belt-driven blower with adjustable sheave
- Powder-coated steel base and housing
- Corrosion-resistant coated steel impeller

Options

- 4' and 6' widths
- Versatile built-in blower that mounts on top of the hood liner, above the hood or at a remote location
- Explosion-proof light and blower
- International electrical configurations
- Unassembled hoods

Required Accessories

- Remote Blower (except Built-In Blower Models)
- Ductwork
- Base cabinet(s) or stand
- Solid Epoxy Flat Work Surface

Optional Accessories

- Service Fixture Kits
- Electrical Receptacle Kits
- Cupsink and Turret Kit
- Guardian Airflow Monitor Kit
- Sash Stop Kit
- Right Side Finish Panel Kit



Basic 70 Laboratory Hood, unassembled

- Nominal Width: 6'
- Blower Requirements: Integral explosion-proof blower included
- Explosion-Proof: Explosion-Proof Model
- Style: Benchtop

Part No.	Description	Qty	List
E510-079	Basic 70 Hood	1/ea	\$7862.90

**Bases, Stands, Work Surfaces
& Carts
are also available.**

Call for more information!



Protector Work Stations

Protector Work Stations are specifically designed for the needs of pathologists and histotechnologists. Like a traditional fume hood, these enclosures have a front air foil and rear baffle to direct the inflow air across the work area and away from the operator. Ideal for cramped or crowded labs, Protector Work Stations have a low profile so they fit easily under standard upper cabinets.

Protector Work Stations designed for ducting to the outside are available with or without a built-in blower. If there is no feasible way to vent to the outside, models with a built-in blower are available that use specially-treated Carbon Filters. These filter packs keep low level concentrations of toluene, xylene, formalin, formaldehyde and other solvents below their OSHA-recommended, time-weighted averages, restoring clean air to the laboratory. Receive a technical analysis of the right product for your application with our Chemical Assessment form.

Features (All Models)

- Face velocities from 60 to 100 fpm
- Clean-Sweep™ air foil
- Upper dilution air supply
- Upper containment sash foil
- Zone-perforated Type 304 stainless steel rear baffle that pivots down and is removable for cleaning
- Side-entry air foils
- Powder-coated aluminum frame and steel rear plenum
- 1/4" thick tempered safety glass front sash and sides
- 8" high sash opening
- Ergonomic 20° angled and hinged sash with wiping seals and spring-loaded latch that pivots upward and locks to a 19.0" height
- Fluorescent lighting
- Light and blower switches
- Exterior rear-mounted electrical receptacle



Options

- International electrical configurations
- Models for ducting to the outside, ducting to a FilterMate Portable Exhauster or for use with carbon filters
- Models with built-in dynamically-balanced motorized impeller
- Models for ducting out have 2" x 10" rectangular exhaust openings on the top and bottom and two utility ports with iris openings and plugs

Required Accessories (Not Included)

- Work surface
- Base cabinet or stand
- Two carbon filters (for models designed for use with carbon filters only)
- Remote blower, house exhaust or FilterMate Portable Exhauster, Exhaust Transition Adapters and Ductwork (for models designed for use with remote blower or Exhauster only)

Optional Accessories

- Guardian Airflow Monitors
- Utility Shelves, Bottle Holder and Tissue Holder
- Remote Blowers

Compliance

- SEFA 1 (Ducted models only)
- SEFA 9, DH I (Built-in blower models or models connected to FilterMate Portable Exhauster only)
- SEFA 8
- Modified ASHRAE 110
- ANSI Z9.5
- UL 61010-1 (115V models)
- CAN/CSA C22.2 No. 61010.1 (115V models)
- CE Conformity marking (230V models)



Part No.	Description	Qty	List
E509-690	4' Work Station w/Built-in Blower	1/ea	\$8701.61
E509-691	4' Work Station w/o Blower	1/ea	\$5855.24

Accessories

Draft Checker Airflow Detection Powder

A quick and easy way to test the safety of fume hood exhaust before use. Just a squeeze or two from the plastic bottle dispenses a cloud of ultra-fine, lightweight silica powder, which remains suspended long enough to visually check whether or not the fume hood exhaust is functioning properly.

Useful for detecting drafts, gas leaks and air currents in rooms, ducts and exhaust systems.

Amorphous silica powder is inert, non-toxic and non-flammable.

1.5 gm bottle.



Part No.	Description	Qty	List
M440-535	Airflow Detection Powder	1/ea	\$36.45

GLOVE BOXES

Portable Glove Box System

The operator and the external environment are protected with this lightweight, self-contained portable isolation cabinet. Available with or without gas ports. Large acrylic window with 6" circular glove ports permits safe viewing of operations. 8" diameter side port allows easy insertion of material and equipment.

Large size, 22" long (20" installed) neoprene gloves (M441-603) provide good protection against gas, liquid or solid penetration; secured to the 6" circular port holes with clamping rings (M441-606).

Body molded from LDPE with round corners throughout for easy cleaning.

Size: 126.5 Liters (7722 cu in).



Part No.	Description	Dims. (L x W x H)	Volume	Qty	List
M441-601...	w/1 pr. of Gloves and 2 Clamping Rings	68.5 x 33 x 55cm		1/ea	\$2244.75
M441-602...	w/2 Gas Ports, 1 pr. of Gloves and 2 Clamping Rings	68.5 x 40.6 x 55cm		1/ea	\$2384.67
M441-600	Glove Box Only	68.5 x 33 x 55cm		1/ea	\$1894.58
M441-603...	Neoprene Gloves for 6" Glove Ports, pair	(Large - size 10)		1/ea	\$531.83
M441-606	Clamping Rings, fit 6" Ports, pair			2/pk	\$41.67

Techni-Dome 360° Glove Box Chamber

The unit's two-piece construction allows for quick processing of samples. To use the Glove Chamber, simply open the top half, place materials on the included platform and close the unit. When not in use, the top half nests into the bottom for convenient storage.

High-impact strength and scratch-resistant surface provides for a long service life.

Smooth, hemispherical interior is easy-to-clean.

Clear polycarbonate provides an unobstructed view of the workspace from any angle.

Molded-in handles and its light 5kg (11lb) weight offer portability; suitable for field use.

Gas ports on top and bottom and one included stopcock with plug (M441-429) can be used to purge the glove box with nitrogen or other gases to create a controlled atmosphere.

Two 6" circular glove ports accept any standard glove box gloves designed to fit 6" diameter openings; gloves (M441-603) and clamping rings (M441-006) not included.



Part No.	Description	Dims. (Diam. x H)	Inside Dims. (Diam. x H)	Volume	Qty	List
M441-607	Glove Chamber	60 x 60cm	38.1 x 38.1cm	65 Liters	1/ea	\$1312.58

SidENTRY™ Glove Box

Large access door for materials and equipment.

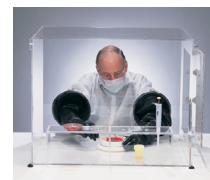
Small enough to move wherever it's needed, the sidENTRY™ Glove Box features a large side entry door for placing material or equipment into the box.

Four adjustable levelers ensure glove box stability and leveling.

Gas purging of the glove box is possible via the supplied and easily assembled stopcock.

Hand entry through the 8" circular ports is customized to end user needs by selecting either the bellows type glove, economy sleeved glove, seamless sleeved glove or the iris port (M441-583), all sold separately.

Made of 6.35mm (1/4") clear acrylic.



Part No.	Dims. (L x W x H)	Volume	Door Opening (W x H)	Qty	List
M441-599	76.2 x 61 x 61cm	283.2 Liters	44.5 x 44.5cm	1/ea	\$3382.33

Glove Box Iris Port Entry - 8" O.D.

Allows protected access, without the use of long sleeve gloves, to any glove box with a 20.3cm (8") O.D. port (M441-599).

30 points of pliant material afford easy access and withdrawal while maintaining an excellent seal around the arm.

Best for unconstrained use of delicate instruments inside the Glove Box where operations with gloves can be awkward.

Fabricated of ten layers of silicone latex rubber.



Part No.	Description	Qty	List
M441-583	8" Glove Box, Iris Point Entry	1/ea	\$1326.33

Due to the unspecified nature of their use and the environment in which they are used, glove boxes, glove box gloves and accessory items and fume hoods may only be returned due to shipping damage reported within two days of receipt and only if they have not been used. Any returned product that has come in contact with process materials or as advised when receiving a RMA number must include a Decontamination Form.



Protector Combination Glove Boxes

Provide inlet and outlet HEPA or ULPA filtration and a leak-tight physical barrier to protect the operator from exposure to potentially hazardous materials and perform work with contamination-sensitive materials under vacuum or in an inert environment. Protector Combination Glove Boxes feature two internal valves to convert the glove box from a flow-through filtered box to an inert atmosphere glove box.

All Protector Combination Glove Boxes are compatible with the new AtmosPure Re-Gen Gas Purifier accessory, which has the capacity to remove up to five liters of oxygen (13,500 ppm) and 660 grams of moisture (18 million ppm) at standard temperature and pressure (STP).

Compliance

- ETL (North America models)
- UL 61010-1 (North America models)
- CAN/CSA C22.2 No. 1010.1 (North America models)
- CE Conformity Marking (International models)

Features

- Factory leak-tested with a mass spectrometer while pressurized with helium at 5 inches of water gauge. No detectable leaks greater than 1 x 10⁻⁶ ml/sec.
- LCD display provides real time monitoring of volume dilution rates in cubic feet per minute (CFM), air changes/minute (ACM), main chamber pressure (inches of water) and transfer chamber in inches of mercury and mBar.
- Large viewing area, 36.0" w x 27.6" high (91 x 70 cm) provides maximum visibility. Viewing window is 3/8" thick, laminated safety glass. Double glove boxes have two viewing areas.
- Space-saving inner and outer transfer chamber doors that pivot upward, are counterbalanced and equipped with quick-latches.
- Interior right-hand side wall-mounted electrical receptacle with 10 amp maximum (100/115 volt models) or 10 amp maximum (230 volt models) circuit load. North America models are duplexes. Double gloves boxes have an additional centrally-mounted interior duplex receptacle.
- Two internal valves to convert the glove box from a flow-through filtered box to an inert atmosphere glove box.
- Pair of neoprene gloves, 0.015" thick, 30" long, size 9 3/4.
- Switches for light and electrical duplex.
- Two 8" ID, epoxy-coated aluminum double-grooved glove ports mounted 17" apart, with neoprene gaskets.
- Two 25-watt fluorescent lights.
- Dry-powder epoxy-coated, 18 and 20 gauge steel exterior panels.

Filtered Glove Box Features

- Particulate containment <20 nanograms per cubic meter as confirmed by SafeBridge Consultants, incorporated.
- Fast "clean up time." 0.05 ppm average tracer gas levels or less detected during perimeter scan testing (surpasses ASHRAE 110 standards) after 5 minute dilution.
- Airborne particulate cleanliness (measured under positive and negative pressures per ISO 14544-1 test method) exceeds ISO Class 5 conditions (equivalent to Class 100) and achieves ISO Class 4 conditions.
- Inlet and outlet particulate (HEPA or ULPA) filters to prevent contaminants from entering or leaving the glove box chamber.
- Test port for challenging HEPA or ULPA filter integrity.
- True Bag-In/Bag-Out Filter Disposal System for safe filter removal and replacement.
- Built-in blower with speed control capable of airflow from 15 CFM to 85 CFM depending on voltage and frequency.

Controlled Atmosphere Glove Box Features

- Exceed Class I atmosphere containment conditions for oxygen permeation <1.67 ppm/min per ISO 10648-2 test method.
- Oxygen permeation <0.3 ppm/min (fiberglass-lined models) and <0.15 ppm/min (stainless steel-lined models) per ISO 10648-2.
- Four manual valves – two on the main chamber and two on the transfer chamber – for evacuating, filling and added control. With 3/8" compression fittings.
- Automatic control of the main chamber pressure (-5 to +5 inches of water gauge), main chamber evacuation and filling cycles (up to 499 cycles) and transfer chamber evacuation and filling cycles (up to 199 cycles).
- Regulation of vacuum/pressure between -5 and +5 inches of water gauge in the main chamber and between 0 and -29.5 inches of mercury in the transfer chamber.
- Mutable, audible alarm that sounds when pressure/vacuum level is outside set limits.
- Three-position foot pedal (increase gas/fill, off, evacuate/decrease gas).
- Input/output port for optional AtmosPure™ Re-Gen Gas Purifier.
- Factory-installed, rear-mounted, low profile stainless steel pressure relief bubbler at 6 inches of water gauge.
- Two rear-mounted inlet and outlet 3/4" OD compression fittings for easy connection to optional AtmosPure™ Re-Gen Gas Purifier or other accessory drying train.

Options

- Double wide models with four glove ports for two operators
- International electrical configurations
- Chemical resistant, one-piece molded fiberglass liner or type 304 stainless steel liner
- Inlet and outlet 99.99% efficient HEPA (fiberglass-lined models) or 99.999% efficient ULPA (stainless steel-lined models) filters

Required Accessories

- Adjustable Height Base Stand or Stationary Base Stand
- Vacuum source
- Inert gas for filling

Protector Stainless Steel Combination Glove Box

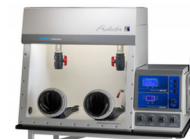
Filter Type: ULPA
 Liner Material: Stainless Steel
 Primary Application: Atmosphere-sensitive materials, Hazardous materials



Part No.	Description	Glove Ports	Interior Working Width	Qty	List
E510-470	Double Combination Glove Box	4	81.8"	1/ea	\$72852.42
E510-469	Combination Glove Box	2	35.5"	1/ea	\$44042.74

Protector Fiberglass Combination Glove Box

Filter Type: HEPA
 Liner Material: Fiberglass
 Primary Application: Atmosphere-sensitive materials, Hazardous materials



Part No.	Description	Glove Ports	Interior Working Width	Qty	List
E510-454	Combination Glove Box	2	35.5"	1/ea	38543.95

Protector Filtered Glove Boxes

Provide inlet and outlet HEPA or ULPA filtration and a leak-tight physical barrier to protect the operator from exposure to potentially hazardous materials. These glove boxes feature particulate containment <20 nanograms per cubic meter as confirmed by SafeBridge Consultants, Incorporated and also meet ISO Class 3 standards. Labconco HEPA Filtered Glove Boxes may be appropriate for use as containment isolators for applications that include compounds assigned ISO 4 and ISO 5 Banding Levels. Contact your Health and Safety Officer for specific Engineered Containment Device requirements.

Features

- Particulate containment <20 nanograms per cubic meter as confirmed by SafeBridge Consultants, Incorporated.
- Fast "clean up time." 0.05 ppm average tracer gas levels or less detected during perimeter scan testing (surpasses ASHRAE 110 standards) after 5 minute dilution.
- Airborne particulate cleanliness (measured under positive and negative pressures per ISO 14644-1 test method) exceeds ISO Class 5 conditions (equivalent to Class 100) and achieves ISO Class 4 conditions.
- Factory leak-tested with a mass spectrometer while pressureized with helium at 1 inch of water gauge. No detectable leaks greater than 1 x 10⁻⁶ ml/sec.
- Inlet and outlet particulate (HEPA or ULPA) filters to prevent contaminants from entering or leaving the glove box chamber.
- Test port for challenging HEPA or ULPA filter integrity.
- True Bag-In/Bag-Out Filter Disposal System for safe filter removal and replacement.
- LCD display provides real time monitoring of volume dilution rates in cubic feet per minute (CFM), air changes/minute (ACM) and main chamber pressure (inches of water).
- Built-in blower with speed control capable of airflow from 15 CFM to 85 CFM.
- Large viewing area, 36" w x 27.6" high, provides maximum visibility. Viewing window is 3/8" thick, laminated safety glass.
- Space-saving inner and outer transfer chamber doors that pivot upward, are counterbalanced and equipped with quick-latches.
- Interior right-hand side wall-mounted pass-through plug for on-site installation of an optional accessory: electrical outlet, RS-232 port, gas/liquid port or port for oxygen or moisture monitor.
- Pair of neoprene gloves, 0.015" thick, 30" long, size 9 3/4.
- Switches for light, blower and electrical duplex.
- Two 8" ID, epoxy-coated aluminum double-grooved glove ports mounted 17" apart, with neoprene gaskets.
- Two 25-watt fluorescent lights that exceed 100 footcandles.
- Dry-powder epoxy-coated, 18 and 20 gauge steel exterior panels.

Options

- Chemical resistant, one-piece molded fiberglass liner or type 304 stainless steel liner
- Clear acrylic inner and outer transfer chamber doors (fiberglass-lined models)
- Type 304 stainless steel inner and outer transfer chamber doors and front panel (stainless steel-lined models)
- Inlet and outlet HEPA (fiberglass-lined models) or ULPA (stainless steel-lined models) filters
- Protector Stainless Steel Double Filtered Glove Boxes have 81.84" of interior working width and four glove ports
- International electrical configuration

Required Accessories

- Adjustable Height Base Stands

Optional Accessories

- Balance Vibration Isolator
- Anti-Static Ionizer Fan
- Gloves and Glove Box Accessories
- HEPA Inlet or Exhaust Filter



Part No.	Description	Filter	Glove Ports	Interior Working Width	Qty	List
E511-429	Fiberglass Filtered Glove box	HEPA	2	35.0"	1/ea	\$22812.90
E511-437	Stainless Steel Double Filtered	ULPA	4	81.8"	1/ea	\$57289.11



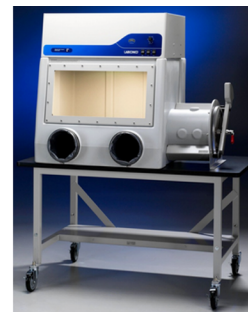
Precise HEPA-Filtered Glove Boxes

Have inlet and outlet HEPA filters and provide a leak-tight physical barrier to protect the operator from hazardous airborne particulates and powders. These boxes have uses in pharmaceutical research, nanotechnology and biochemistry. Microorganisms, low-level radiochemicals, chemical carcinogens and asbestos may also be used in these boxes.

These boxes may be used for cleanroom applications requiring ISO Class 3 (ISO 14644-1) conditions. Labconco HEPA Filtered Glove Boxes may be appropriate for use as containment isolators for applications involving compounds assigned ISO 4 and ISO 5 Banding Levels. Contact your Health and Safety Officer for specific Engineered Containment Device requirements.

Features

- One-piece molded, medium-density polyethylene shell.
- Dry powder epoxy-coated steel superstructure
- 1/4" thick laminated safety glass viewing window, 26.4" wide x 12.5" high, removable for loading equipment, with powder-coated steel frame and neoprene gasket
- Space-saving inner and outer transfer chamber doors that pivot upward, are counterbalanced and equipped with quick-latches
- Black, chemical-resistant work surface sealed to the glove box floor
- Interior ceiling-mounted electrical duplex receptacle with 5 amp maximum circuit load
- Neoprene gloves, size 9 3/4", are included.
- Built-in blower with speed control capable of airflow from 13 CFM to 75 CFM.
- Fluorescent lamp, 22 watts, with easy replacement from the top
- Switches for light, blower and innermost interior electrical receptacle
- Inlet and outlet HEPA filters, 99.99% efficient on 0.3 micron particulates
- Test port for challenging HEPA filter integrity
- Main chamber static pressure gauge for monitoring HEPA filter loading.
- Approximately 13 cubic feet of interior space in main chamber
- 11.0" nominal ID x 12.0" long transfer chamber
- Factory leak tested with a mass spectrometer while glove box is pressurized with helium at 5 inches of water gauge.
- No detectable leaks greater than 1×10^{-3} ml/sec
- Meet Class 1 atmosphere containment conditions for oxygen leak rates per ISO 10648-2 test method
- Transfer chamber interior interlocking shelf of dry powder epoxy-coated steel
- 0.05 ppm average tracer gas levels or less detected during perimeter scan testing (surpasses ASHRAE 110 standards)
- Airborne particulate cleanliness (measured under positive and negative pressures per ISO 14644-1 test method) exceeds ISO Class 5 conditions (equivalent to Class 100) and achieved ISO Class 3 conditions (equivalent to Class 1) at both minimum and maximum operational airflow volumes
- Vibration less than 1.5×10^{-5} inches displacement measured at the work surface at both minimum and maximum airflow volumes
- ETL listed (115 volt models)
- CE Conformity (230 volt models)



Optional Accessories

- Acrylic Viewing Window
- Add-A-Valve Kit
- Anti-Static Ionizer Fan
- Balance Vibration Isolator
- Blower Foot Switch
- Complete Valve Set
- Diaphragm Pumps
- Electrical Power Strips
- Exterior Transfer Chamber Shelf
- External Glove Port Covers
- FilterMate Portable Exhausters
- Gloves and Glove Box Accessories
- Hanging Shelf Accessories
- Positive Pressure Conversion Kit
- Recirculation Kit
- Remote Blowers
- Storage Shelf Kits
- Trap Inserts
- Waste Chute

Options

- International electrical configurations

Required Accessories

- Adjustable Height Base Stands
- Base Cabinet
- Work Surface

Part No.	Description	Filter	Glove Ports	Interior Working Width	Qty	List
E510-499	.....Polyethylene Glove Box.....	HEPA.....	2	33.5"	1/ea.....	\$1196.77

NEUTRALIZERS

Ampho-Mag™ Neutralizer - Color Changing

Acids, bases, neutralizing, neutralizing capacity up to 3/4 gal. per container or 3.6 gal. total.

If you don't know what liquids you're dealing with, this will neutralize small spills of most acids or bases and then change color to let you know when it's safe to finish the cleanup.

Powder turns red when it comes in contact with acid (sulfuric acid is often mistaken for water, making it the number one material for accidental injury).

Ampho-Mag turns blue on contact with a base.

Safely neutralized chemical spills turn green/yellow.

Packaged in a shaker bottle for easy application.

Shelf life of Amphomag is 6 months from shipping date or 12-18 months when stored properly and not exposed to moisture and/or humidity. Dry condition of material should be confirmed every 6 months.

Color: White
 Fluid Absorbed/Neutralized: Acids; Bases
 Neutralizing Capacity: Up to 3/4 gal. per Container or 3.6 gal. Total
 Unit Weight: 3lb.
 Sold as: 6 containers per box



Part No.	Description	Qty	List
S802-510	Ampho-Mag™ Neutralizer	6/cs	\$642.50

PIG® Base Encapsulating/Neutralizing Loose Absorbent

Bases, encapsulating & neutralizing, neutralizing capacity up to 2.5 gal.

Neutralizes and encapsulates spills of bases and then changes color to let you know when it's safe to finish the clean-up.

Changes color on contact with base, then returns to normal when neutralization is complete; helps identify the best time to handle with the least amount of risk.

Instantly absorbs up to 50% potassium hydroxide and other concentrated bases.

Gelling agents solidify base during neutralization and prevents it from leaching out.

Neutralizing Capacity: Up to 2.5 gal.

Weight: 8lbs.



Part No.	Description	Qty	List
S802-530	Encapsulating/Neutralizing Loose Absorbent	1/ea	\$250.00

Spill-X-C® Caustic-Neutralizing Adsorbent

Caustics, neutralizing, neutralizing capacity up to 4 to 6 gal.

Neutralizes larger spills for safer cleanup and handling.

Neutralizes and solidifies many caustics for safe and easy cleanup, including sodium hydroxide (50%) and ammonium hydroxide (29%).

Granular base lets you use only what you need; reduces product waste and disposal costs.

Speeds spill cleanup to limit worker exposure and minimize production downtime.

Ideal for use in shipping/receiving areas, caustic container storage areas and caustic use and transfer sites.

Non-toxic, free-flowing dry chemical is environmentally friendly.

Unit Weight: 50 lb.



Part No.	Description	Qty	List
S801-177	Caustic-Neutralizing Adsorbent	1/ea	\$1162.50

PIG® Hydrofluoric Acid Neutralizing Loose Absorbent

Hydrofluoric acid, absorbing & neutralizing, neutralizing capacity up to 31 oz. per container or 1.4 gal. total.

Product contains, absorbs and neutralizes hydrofluoric acid.

Pelletized formula absorbs more and requires less cleanup than traditional hydrofluoric acid neutralizers.

Safer to use because it doesn't splatter, create hazardous respirable dust or leave residue like other powdered loose neutralizers.

Larger particle size is safer to use around sensitive equipment and outdoors.

Absorbs and neutralizes up to 31 oz. per 1.5 lb. container.

Neutralizing Capacity: Up to 31 oz. per container or 1.4 gal. total



Part No.	Description	Qty	List
S802-533	Hydrofluoric Acid Neutralizing Loose Absorbent	6/cs	\$222.50



SHIELDS

Beta

Beta Shield

- Radiation Protection Shield has no eye-level distortion
- Non-skid feet
- Extra wide top
- Beta warning stickers

Radiation Protection Shield is designed with a lower bend and wider top gives greater visibility of work surface and assures greater protection from splashes to face and neck area. The gentle bend from the base allows the technician to observe the working surface from a comfortable sitting position.

The lower area of the Radiation Protection Shield is just 12" wide, thus making it easy to reach behind the Shield to pipette, open vials or perform any number of functions, while protecting the operator from being accidentally splashed. Fabricated from 3/8" clear acrylic for excellent stability. Non-skid feet.

Product Measurements: base—20" W x 12" D; face area—20" W x 15" H; overall— 20" W x12" D x20" H

All Dynalon Beta protection products are manufactured in the United States using Acrylic sheet certified by an independent organization to be 100% effective in shielding against beta radiation.

Important Cleaning Note: Should the acrylic surfaces of acrylic products need cleaning, DO NOT USE ANY SOLVENTS OR ABRASIVES (alcohol, acetone, etc...) USE OF THESE MATERIALS WILL CAUSE CRACKING OR CRAZING OF THE ACRYLIC. For general cleaning wash the surface with a mild detergent and soft cloth, then rinse thoroughly with clean water.



Part No.	Description	Qty	List
R650-009	Beta Shield	1/ea	\$229.85

Beta Shield, Single Bend

- High quality shields in 3/8 inch Acrylic protect against beta radiation
- Angles allow comfortable ergonomic working position when examining or handling samples
- Excellent demonstration shield
- Biohazard shield for blood-borne pathogens

Bench top shields are designed with the safety of the user in mind. The top is angled and wide to protect the face and body. Like our popular Splash Shield, the user can easily place his/her arms around the shields to perform any number of procedures while still protecting the operator.

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Part No.	Description	Qty	List
M461-206	Angle Beta Shield / 12 x 12 x 4"	1/ea	\$91.06
R650-018	Angle Beta Shield / 18 x 12 x 6"	1/ea	\$127.74

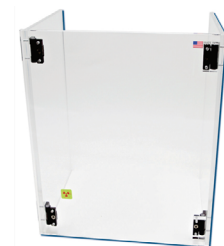
Beta Shield, Hinged

Versatile 3/8" full gauge acrylic Beta shield provides enclosed three sided stand alone protection as well as convenient fold-away storage. May also be used as U-shaped shield. Combine with our Catalog Number R650-012 to create a full four sided enclosure.

Dimensions: 16 1/2"H with 14" front and 12" sides

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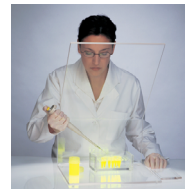
Important Cleaning Note: Should the acrylic surfaces of acrylic products need cleaning, DO NOT USE ANY SOLVENTS OR ABRASIVES (alcohol, acetone, etc...) USE OF THESE MATERIALS WILL CAUSE CRACKING OR CRAZING OF THE ACRYLIC. For general cleaning wash the surface with a mild detergent and soft cloth, then rinse thoroughly with clean water.



Part No.	Description	Qty	List
R650-017	Hinged Beta Shield	1/ea	\$354.82

Beta Shields

Free standing workshields in 3 sizes.
Beta shields reduce the exposure from radioactive isotopes and offer excellent clarity.
Made from 9.5mm (3/8") clear acrylic with non-skid feet.
All three sizes feature an angled shield and flat base with large work surface.



Part No.	Dimensions (L x W x H)	Qty	List
S213-030	20.3 x 30.5 x 37.5cm (8 x 12 x 14 3/4")	1/ea	\$242.63
S213-031	30.5 x 35.6 x 52.7cm (12 x 14 x 20 3/4")	1/ea	\$366.60
S213-032	31.4 x 40.6 x 52.1cm (12 3/8 x 16 x 20 1/2")	1/ea	\$481.50

Beta Shield, U-Form

These U-Form Radiation Safety Shields are made of 3/8" full gauge acrylic. Shields protect against P32, C14 and S35.
Product Dimensions: 24"H with 20" front and 9" sides

All Dynalon Beta protection products are manufactured in the United States using Acrylic sheet certified by an independent organization to be 100% effective in shielding against beta radiation.
Important Cleaning Note: Should the acrylic surfaces of acrylic products need cleaning, DO NOT USE ANY SOLVENTS OR ABRASIVES (alcohol, acetone, etc...) USE OF THESE MATERIALS WILL CAUSE CRACKING OR CRAZING OF THE ACRYLIC.
For general cleaning wash the surface with a mild detergent and soft cloth, then rinse thoroughly with clean water.



Part No.	Description	Qty	List
R650-015	U Form Beta Shield	1/ea	\$293.32

Beta Blocking Apron, Neoprene

For added personal safety.
This lightweight, yet effective, Beta-blocking neoprene apron blocks up to 96% of the high energy beta rays from Strontium-90 and over 98% of the beta rays from Phosphorous-32.
Perfect for safeguarding against chemical splashes.
Strap system places weight of apron on the shoulders instead of the neck.
Intended for use in conjunction with radiation protection shields.
Size: 3.2mm (1/8") thick, 51 x 82cm long (20 x 32-1/4"); weighs 1.5Kg (3.35lb)
One size fits all; black



Part No.	Description	Qty	List
M440-574	Beta Blocking Apron	1/ea	\$354.15

Polycarbonate

Polycarbonate Safety Shield

This shield is made from 1/4" thick polycarbonate. It will withstand temperatures up to +130°C and shields against UV.
The shield is supported by a 12 pound industrial engineered weighted base.



Part No.	Dimensions (H x W x D)	Qty	List
R650-016	30 x 19 x 6"	1/ea	\$416.21

Large Weighted Safety Shields

Highest impact resistance of all transparent shield materials.
Personnel are protected by a 4.7mm (3/16") thick, clear polycarbonate barrier with exceptional impact resistance and optical clarity. This item ships oversize.
Shields meet High Mass Impact Test and High Velocity Impact Test as defined by ANSI Z87.1, sections 9.11 and 9.12, respectively.
Stable, three-sided construction provides front and side protection against flying debris.
Heavy steel base is coated with blue epoxy.
Plated steel bolts, nuts and washers are used for assembly ensuring long life and rust-resistance.
Outside base dimensions are 50cmW x 17cmD (19 1/2 x 6 1/2").



Part No.	Height / Weight	Qty	List
M440-636	76cm (30") / 8.4kg (18.5lb)	1/ea	\$774.75
M440-637	91cm (36") / 8.9kg (19.6lb)	1/ea	\$858.58



Splash

Splash Shields

Protects user with smooth, easy position adjustment.

No matter how your workspace is configured, these Plexiglas® Splash Shields are designed to provide safety plus comfort (not hot and stuffy like personal face shields), flexibility (they're fully adjustable) and quality in a design that will adapt to your specific needs.

All shields move side-to-side as well as up and down at the touch of a finger.

Free precious work space and enhance the performance of every user.

After selecting desired shield, order appropriate mounting fixtures to suit your work area.

Splash Shields

Part No.	Description	Recommended Mounting Fixtures	List
M440-639	Single Plexiglas® Splash Shield 305 x 381mm (12 x 15") with 61cm (24") Articulating Arm	Select type A, B, C or D	\$502.65
M440-640	Single Plexiglas® Splash Shield 30.5 x 38.1cm (12 x 15") for Island Benches with 96.5cm (38") Articulating Arm	Select type A, B or C	\$621.15
M440-641	Double Plexiglas® Splash Shield 38.1 x 61cm (15 x 24") for Island Benches with two 96.5cm (38") Articulating Arms	Select type A, B or C Must order two of same	\$844.65
M440-642	Double Plexiglas® Splash Shield 38.1 x 61cm (15 x 24") with two 61cm (24") Articulating Arms (one for each arm)	Select type A, B or C Must order two of same	\$897.38

Mounting Fixtures

Part No.	Description	List
M440-643	"C" Clamp: Opens to 63mm (2½"), Order two for use with double shields	\$66.68
M440-644	Fixed Table Bracket: Attaches permanently with screws to bench top. Order two for use with double shields.	\$66.68
M440-645	Wall Bracket: Attaches permanently to vertical surface with screws. Mount to wall studs only. Order two for use with double shields.	\$66.68
M440-646	Weighted Base: 24.1cm (9½") Diameter Base. For use only with Single Splash Shield M440-639	\$270.22



Replacement Plexiglas® Shields

Part No.	Description	List
M440-647	Pre-Drilled Single Shield (fits M440-639/640)	\$128.40
M440-648	Pre-Drilled Double Shield (fits M440-641/642)	\$175.65

Bench Top Splash Shield

No eye-level distortion.

Extra wide top.

Lower bend and wider top gives greater visibility of work surface and assures greater protection from splashes to face and neck area. The Splash Shield has been designed to be used comfortably either from a standing or sitting position. The gentle bend from the base allows the technician to observe the working surface from a comfortable sitting position.

The lower area of the Shield is just 12" wide, thus making it easy to reach behind the Shield to pipette, open vials or perform any number of functions, while protecting the operator from being accidentally splashed. Fabricated from 1/4" clear acrylic for excellent stability. Non-skid feet. Not suitable for radiation protection.

R650-010 Measurements: base—20" W x 12" D; face area—20" W x 15" H; overall— 20" W x 12" D x 20" H. Curved Splash Shield

C420-016 Measurements: base—12.8" W x 8.2" D; face area—20" W x 14.75" H. Single Angle Splash Shield

Important Cleaning Note: Should the acrylic surfaces of acrylic products need cleaning, DO NOT USE ANY SOLVENTS OR ABRASIVES (alcohol, acetone, etc...) USE OF THESE MATERIALS WILL CAUSE CRACKING OR CRAZING OF THE ACRYLIC. For general cleaning wash the surface with a mild detergent and soft cloth, then rinse thoroughly with clean water.



Part No.	Description	Qty	List
R650-010	Curved Splash Shield	1/ea	\$188.74
C420-016	Single Angle Splash Shield	1/ea	\$94.06

SPILL KITS

PIG® Truck Spill Kit in Stowaway Bag

Absorbs up to 6.5 gal., absorbs oils, coolants, solvents, water.

Space-saving, suitcase-style spill kit stashes behind or underneath your truck seat to keep you prepared for spills on the road.

Designed just for trucks! Packed with PIG Absorbents and essential spill supplies for cleaning up oil, gas and other vehicle fluids.

Suitcase-style stowaway bag is designed to fit behind or underneath the seat of a truck or other vehicles.

Hi-viz yellow bag with reflective striping is easy to find; increases driver visibility and safety during spill response.

Durable fabric and rugged construction won't rip or tear; tough enough to refill and reuse.

Bold "Spill Kit" lettering printed on front and sides of bag for quick identification.

Three interior compartments help segregate contents for faster response.

Carrying straps make it easy to pull bag from its storage space and take supplies to the spill.

Includes:

3 - ext. dia. 3" x 48" L PIG® Blue Absorbent Sock

40 - 15" W x 20" L PIG® Absorbent Mat Pad

2 - ext. dia. 3.25" x 1.75" H PIG® Plug-N-Seal® No-Freeze Patching Paste

1 - Collapsible Container

1 - 13" L Showa-Best Chem Master™ Neoprene Gloves

1 - Economy Goggles

1 - Apron

1 - Lightstick

5 - 18" W x 30" H Polyethylene Disposal Bags

1 - Instructions



Part No.	Description	Qty	List
S801-856	Truck Spill Kit	1/ea	\$465.00

PIG® HazMat Spill Kit in 20-Gallon Overpack Salvage Drum

Absorbs up to 11 gal., absorbs acids; bases; unknowns, UN1H2/X66/S.

Overpack drum container is UN Rated for shipping waste after spill cleanup.

PIG HazMat socks stop spreading spills; PIG HazMat pads and pillows absorb quickly.

PIG HazMat absorbents are specially treated for unsurpassed performance with concentrated corrosives, such as 98% sulfuric acid and 30% sodium hydroxide.

Overpack is X-rated in packing groups I, II and III for shipping spill cleanup waste by land, sea or rail.

Lightweight, polypropylene container resists chemicals and keeps contents clean and dry.

Two broom holes 180-degrees opposite each other on the lid allow 100% positive leverage for easy opening and closing with a broom handle or bar.

Bold "Spill Kit" lettering for quick identification.

Ledges molded into container make kit easy to move by forklift; foot hold in the drum base allows you to hold the drum securely in position while opening or closing the lid.

Apply a tamperproof seal to alignment holes on lid and drum to ensure contents aren't disturbed.

Features enhanced lid and base design for added strength and security for stacking or if the drum is accidentally dropped.

Note: A PIG overpack protection cover (available separately) is suggested for outdoor storage to protect container from UV degradation and weathering.

Includes:

6 - ext. dia. 3" x 46" L PIG® HazMat Chemical Absorbent Sock

6 - 15" W x 20" L PIG® HazMat Mat Pad

5 - 17" W x 16" L x 2" H PIG® HazMat Chemical Absorbent Pillow

5 - 18" W x 30" H Polyethylene Disposal Bags

6 - 2" W x 6" L Tamperproof Seal Label



Part No.	Description	Qty	List
S801-761	20 Gal. HazMat Spill Kit	1/ea	\$722.50

Coveralls can be found on pages 12-13.



PIG® Spill Kit in 20-Gallon Overpack Salvage Drum

Absorbs up to 12 gal., absorbs oils, coolants, solvents, water, UN1H2/X66/S.
 Overpack drum container is UN Rated for shipping waste after spill cleanup.
 Neatly prepacked container speeds access during a spill emergency.
 PIG Blue socks stop spreading spills; PIG® mat and pillows absorb quickly.
 Temporary disposal bags help make cleanup easier.

Overpack is X-rated in packing groups I, II and III for shipping spill cleanup waste by land, sea or rail.

Lightweight polypropylene container resists chemicals and keeps contents clean and dry.

Two broom holes 180-degrees opposite each other on the lid allow 100% positive leverage for easy opening and closing with a broom handle or bar.

Bold "Spill Kit" lettering for quick identification.

Ledges molded into container make kit easy to move by forklift; foot hold in the drum base allows you to hold the drum securely in position while opening or closing the lid.

Apply a tamperproof seal to alignment holes on lid and drum to ensure contents aren't disturbed.

Features enhanced lid and base design for added strength and security for stacking or if the drum is accidentally dropped.

Note: A PIG overpack protection cover (available separately) is suggested for outdoor storage to protect container from UV degradation and weathering.

Includes:

- 1 - ext. dia. 3" x 10' L PIG® Blue Absorbent Sock
- 4 - ext. dia. 3" x 48" L PIG® Blue Absorbent Sock
- 15 - 15" W x 20" L PIG® Absorbent Mat Pad
- 2 - 17" W x 21" L x 2" H PIG® Absorbent Pillow
- 5 - 18" W x 30" H Polyethylene Disposal Bags
- 6 - 2" W x 6" L Tamperproof Seal Label
- 1 - Instructions



Part No.	Description	Qty	List
S801-707	20 Gal. Spill Kit	1/ea	\$392.50

PIG® Spill Kit in High-Visibility Mobile Container

Absorbs up to 37 gal., absorbs oils, coolants, solvents, water.

Lightweight hi-viz container kit rolls to spills of up to 37 gallons.

100% polyethylene container resists chemicals.

Heavy-duty 8" rubber wheels roll easily over nearly any surface.

PIG Blue socks stop spreading spills; PIG mat absorbs; PIG Dri and Lite-Dri loose absorbents clean up residue on rough surfaces.

Prepacked container provides easy access to contents.

Built-in handles allow easy steering through tight spots.

Bold "Spill Kit" lettering for quick identification.

Hinged lid provides easy access.

Temporary disposal bags help make cleanup easier.

Tamperproof seal helps prevent pilfering of spill response supplies.

Note: Not for outdoor storage.

Includes:

- 70 - 15" W x 20" L PIG® Absorbent Mat Pad
- 4 - ext. dia. 3" x 48" L PIG® Blue Absorbent Sock
- 1 - ext. dia. 3" x 10' L PIG® Blue Absorbent Sock
- 2 - PIG® Lite-Dri® Loose Absorbent
- 2 - PIG® Dri Loose Absorbent in Spill Pouch
- 5 - 36" W x 60" H Polyethylene Disposal Bags
- 6 - 2" W x 6" L Tamperproof Seal Label
- 1 - Instructions



Part No.	Description	Qty	List
S801-736	High Vis. Mobile Spill Kit	1/ea	\$960.00

Fox Acid Spill Kit Neutralizing Indicating

Size: 22.7Kg

Part No.	Description	Qty	List
S850-22	Neutralizer	1/ea	\$652.80



WASH STATIONS

Emergency Eye Wash Safety Station

This fluid delivery system features a built-in eye cup that allows the injured person to be treated in any position, whether standing, sitting or lying down and provides effective and immediate eye irrigation. U.S. Patent 6,540,726.
 Style: Double Station Contains: 2 - 32oz (1000mL) Empty Wash Bottles



Part No.	Description	Qty	List
M440-600	Eye Wash Station	1/ea	\$86.48

Pocket-Size Emergency Eye Wash Bottle; 120ml, Polyethylene

Keep emergency eye care in your pocket.
 Be prepared for immediate eye care in the field, plant, shop, home, garage or wherever you go.
 Oval polyethylene bottle 120ml (4 oz) has an eyecup with a tight fitting, snap-on cover.
 Fill and keep the bottle handy in your pocket.
 Instructions for use are printed on the bottle.



Part No.	Description	Qty	List
M440-593	120ml (4 oz) Empty Eye Wash Bottle	1/pk	\$22.43

Eyewash, Pedestal Mounted, Plastic Bowl

Free standing, pedestal mounted eyewash. Two GS-Plus™ spray-type outlet heads deliver a flood of water for rinsing eyes.
 Valve, bowl and spray head assembly is factory assembled and water tested prior to shipment.
 Supply: 1/2" NPT female inlet.
 Waste: 1-1/4" NPT female outlet.
 Sign: ANSI-compliant identification sign.



Part No.	Description	Qty	List
S842-499	Eyewash Station	1/ea	\$1080.16

Sperian Fendall Pure Flow 1000 Emergency Eyewash Station

Easy installation. No Plumbing required. Can be easily and affordably placed near most workplace hazards with single bracket mounting device or transported with optional universal cart or stand.
 Factory-sealed fluid cartridges eliminate mixing, measuring and the opportunity for airborne particles or micro-organisms to contaminate the fluid prior to use.
 Easy activate sure-grip handle provides instant, simple activation. When not in use, cover keeps dirt and other debris from collecting in the basin and nozzle area.
 Unique nozzle design delivers a soft "ribbon" of our buffered saline solution.
 Permits thorough flushing with a constant flow rate and stream height that provides 0.4 gpm for entire 15-minute cycle required by ANSI Z358.1-2004.
 Captures waste fluid to eliminate spill hazards and simplify fluid disposal.
 Integral valve at bottom of unit allows easy draining of reservoir after use.
 24-month cartridge life saves times and money on replacement and inspections.
 Cartridges remain sealed until activated. Expiration date is included on activation straps.



Part No.	Description	Qty	List
S834-639	Eyewash Station	1/ea	\$1678.41

Safety Station with Eye/Face Wash, Stainless Steel Bowl

Application: Eye/face wash features a stainless steel bowl with two large FS-Plus™ spray-type outlet heads that deliver a flood of water for rinsing eyes and face.
 Shower Head: 10" diameter orange ABS plastic with 20 GPM flow control.
 Shower Valve: 1" IPS chrome plated brass stay-open ball valve. Valve is US-made with chrome plated brass ball and PTFE seals. Furnished with stainless steel actuating arm and 29" stainless steel pull rod.
 Spray Head Assembly: Two FS-Plus™ spray heads. Each head has a "flip top" dust cover, internal flow control and filter to remove impurities from water flow.
 Eye/Face Wash Bowl: 11-1/8" diameter stainless steel.
 Eye/Face Wash Valve: 1/2" IPS chrome plated brass stay-open ball valve. Valve is US-made with chrome plated brass ball and PTFE seals.
 Pipe and Fittings: Schedule 40 galvanized steel. Furnished with orange polyethylene pipe covers for high visibility and corrosion resistance.
 Supply: 1-1/4" NPT female top or side inlet.
 Waste: 1-1/4" NPT female outlet. Outlet can be positioned at either 9-1/4" or 19-5/8" above finished floor by reversing lower pipe nipples.



Part No.	Description	Qty	List
S842-508	Eyewash Station	1/ea	\$3085.36



Trademarks

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Snap Top Caps™

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Premier™

Justrite Mfg. Co.
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