

KIMBLE® PETROCHEMICAL



**DURAN
WHEATON
KIMBLE**

Excellence in your hands

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BEVEL-SEAL™ Inlet Adapter

For use with plain thermometers, pipets, syringes or other small items with an OD from 2 to 17 mm.

- A vacuum-tight seal is created with the open top compression cap and FKM o-ring to allow adjustable immersion of thermometers
- Cap is suitable for use to 150 °C
- To use it as a septum port, just replace the o-ring with a PTFE-lined septum
- Ref: ASTM Method D1744
- Supplied with one FKM o-ring and one 410119 cap
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Accommodation Range (mm)	Modified GPI Thread	Case Qty
179700-1424	11-14	22-415	1
179700-0529	2-5	13-415	1
179700-2129	5.5-6.5	13-425	1
179700-1729	14-17	28-415	1



Low Form Griffin Beakers

KIMAX® 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
- All sizes have a durable matte finish marking area for use with an ordinary pencil
- Easy-to-read white graduated scale is provided on all sizes from 20 to 4000 mL for measuring and/or mixing liquids
- 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

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Case Qty
14000-10	10		48
14000-20	20	5 to 15	48
14000-30	30	5 to 25	48
14000-50	50	20 to 40	48
14000-100	100	20 to 80	48
14000-150	150	20 to 140	48
14000-250	250	25 to 200	48
14000-400	400	50 to 325	48
14000-600	600	50 to 500	36
14000-800	800	50 to 750	24
14000-1000	1000	100 to 1000	24
14000-1500	1500	200 to 1400	16
14000-2000	2000	200 to 2000	8
14000-4000	4000	500 to 3500	6

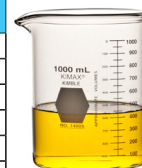


Low Form Heavy Duty Beakers

KIMAX® heavy duty beakers offer superior mechanical strength and durability. They also offer 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
- Uniformity of construction allows for use on hot plates
- All sizes have a durable matte finish marking area and a 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

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Case Qty
14005-250	250	25 to 200	48
14005-400	400	25 to 325	48
14005-600	600	50 to 500	36
14005-1000	1000	100 to 1000	24
14005-2000	2000	200 to 1800	8
14005-4000	4000	500 to 3500	4



Tall Form Berzelius Beakers

KIMAX® Berzelius 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

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Case Qty
14020-100	100	20 to 80	12
14020-200	200	25 to 150	12
14020-300	300	25 to 250	12
14020-400	400	25 to 325	6
14020-600	600	50 to 500	6
14020-1000	1000	50 to 950	6
14030-100	100	20 to 80	48
14030-200	200	25 to 150	48
14030-300	300	25 to 250	48
14030-400	400	25 to 325	36
14030-600	600	50 to 500	24
14030-1000	1000	50 to 950	18



Unsaturation Gasoline Bottles

KIMAX® bottle used in the determination of unsaturated hydrocarbons in gasoline.

- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

The body of the bottle (approximately 45 mL capacity) is a "reaction vessel" in which an accurately measured sample is pipetted into the bottle; excess reagent is then added. After the reaction is complete, more reagent is added to raise the "fat column" into the calibrated neck of the bottle, where results are read directly as a percentage of fat in the sample.

Kimble Cat. No.	Neck Capacity (%)	Tolerance (%)	Case Qty
15066-10	100 (10 mL)	± 1	12



Heavy Duty Carboy

The heavy duty construction of these bottles is designed to prolong life expectancy with harder than normal usage. Ideal for storage and dispensing of solutions.

- KIMAX® carboy-style bottle with sloping shoulders
- Neck is tooled for a uniform fit with a #12 rubber stopper
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Capacity (gallons)	Case Qty
14950-25	9500	2.5	1
14950-35	13200	3.5	1
14950-120	45500	12.0	1
14950-500	19000	5.0	1



Reservoir Bottle with Bottom Hose Outlet

Designed to store and discharge liquids via a bottom hose outlet.

- Glass hose connection outlet is fused to the bottle
- All sizes accept 5/16" ID flexible tubing
- With white enamel marking spot
- Ref: ASTM Method D1744
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Fits Tubing ID (inches)	Case Qty
14607-250	250	5/16	6
14607-500	500	5/16	1
14607-1000	1000	5/16	1
14607-2000	2000	5/16	1
14607-5000	5000	5/16	1



Solution Bottle with Color-Coded PTFE Flathead Stopper

These KIMAX® bottles are designed for storage and dispensing of solutions.

- Bottle necks are Standard Taper ground to accept flathead color-coded PTFE stoppers
- Replacement stoppers are Cat. No. 41941R.
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Standard Taper Stopper Size	Case Qty
15097-100	100	14	1
15097-250	250	19	6
15097-500	500	24	6
15097-1000	1000	29	6
15097-2000	2000	29	4



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
- 30 mm 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 requirement

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Case Qty
14395-100	100	20-80	10
14395-250	250	50-200	10
14395-500	500	100-400	10
14395-1000	1000	100-900	10
14395-2000	2000	400-1800	4
14395-5000	5000	1000-4000	1
14395-10000	10000	2000-8000	1



RAY-SORB® GL 45 Media Bottles

Designed to protect contents from UV rays; ideal for light-sensitive products

- Enhanced graduations and marking spot made with chemically resistant white enamel paint
- 30 mm ID opening
- Linerless GL 45 screw thread cap
- Autoclavable
- 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 and then RAY-SORB® processed

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Case Qty
14399-100	100	20-80	1
14399-250	250	50-200	1
14399-500	500	100-400	1
14399-1000	1000	100-900	1
14399-2000	2000	400-1800	1
14399-5000	5000	1000-4000	1
14399-10000	10000	2000-8000	1



Static Dilution Bottles

The static dilution bottle provides a simple, inexpensive means to prepare, store and use standards of volatile organic compounds.

- Standards are prepared by injecting a small quantity of the pure compounds into the bottle and using heat to fully evaporate.
- A push-pull, color-coded, (green-for-open, red-for-closed) Mininert valve is supplied for easy use and long lasting performance
- The valve is excellent for sealed tube reactions, long term storage of standards or periodic addition of reactants
- Sample aliquots are withdrawn using a gas-tight syringe
- Septum seal prevents leakage when using a syringe
- Standards prepared by this method are stable for up to one week
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Valve Thread	Case Qty
591190-2000	2000	24-410	1



Sample Containers

This sample container is for use in the determination of the stability of gasoline under accelerated oxidation conditions.

- The cover is intended to prevent material that is refluxing back into the bomb stem from contaminating the sample
- Ref: ASTM D525
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Overall Height (mm)	Width (mm)	Case Qty
896670-0000	110	50	1



Cold Test Jar

KIMAX® jar used to determine the temperature (cloud point) at which haziness is first observed at the bottom of the jar when petroleum oils are cooled and examined under specified conditions (ASTM D2500), and also the temperature at which chilled undisturbed oils will pour (ASTM D97).

- Jar has a flat bottom and a reinforced bead at the open end
- With a marking spot and a graduation ring located 54 mm from the inside bottom
- Ref: ASTM Method D97, D2500
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Height (mm)	OD (mm)	Case Qty
32501-99	125	35	36



Class A Burets, Serialized and Certified, Straight Bore PTFE Stopcock, with Dust Cap

KIMAX® precision bore buret is permanently marked with an individual serial number. Supplied with a Certificate of Graduation Accuracy. Designed from ASTM Specification E287, Class A requirements. KIM-KAP® dust cap is included.

Delivery stem of the 10 mL size is 115 mm long to meet requirements of potentiometric titration burets (ASTM D664). PTFE plug for all sizes is 2. Scale is a durable white ceramic enamel. Replacement stopcock is 821001-0002.

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
17027F-10	10	±0.02	1
17027F-25	25	±0.03	1
17027F-50	50	±0.05	1
17027F-100	100	±0.10	1



Class A Serialized and Certified Automatic Zero Burets with PTFE Stopcock and Reservoir 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 2 mm bore size stopcock plug is 823001-0002.
- 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

Kimble Cat. No.	Buret Capacity (mL)	Tolerance (mL)	Case Qty
17124F-10	10	±0.02	1
17124F-25	25	±0.03	1
17124F-50	50	±0.05	1
17124F-100	100	±0.10	1



Procedure for Using Automatic Buret 17124F: Place the one-holed rubber stopper, large end first, on the lower tubulation of the buret. Add the U-shaped drying tube, prefilled with drying medium, over the small end of the stopper. Join the drying tube to the connecting tube and then the rubber squeeze bulb with the rubber tubing. To fill the buret, turn the stopcock to connect, filling tube to the buret. Squeeze the rubber bulb several times while closing the vent hole in the connecting tube with your finger. As liquid rises and overflows from the tip above the buret, turn the stopcock to off and remove your finger from the vent hole of the connecting tube. If air is trapped in the stopcock or tip, discharge the air and repeat the filling operation to automatic zero at overflow tip.

Class A Serialized and Certified Reservoir Fill Burets with Three-Way Stopcock

Used for general purpose titrations requiring traceable volumetric accuracy.

- Permanently marked with an individual serial number and traceable to NIST Standards
- Supplied with a Certificate of Graduation Accuracy
- Filling tube accepts 1/4 inch ID flexible tubing
- Precision ground tips assure uniform outflow
- KIM-KAP® dust cap is included
- Filled through a self-lubricating PTFE stopcock plug
- Easy-to-read durable white enamel scale
- Reservoir fill style buret
- Replacement 2 mm bore size three-way stopcock is 823001-0002.
- 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 E-438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
17052F-25	25	±0.03	1
17052F-50	50	±0.05	1
17052F-100	100	±0.10	1



Class B Automatic Burets

Used in general purpose volumetric analysis and for repeated titrations where Class B tolerances are appropriate.

- Both the filling and overflow tubes accept 1/4 inch ID flexible tubing
- Filled through a self-lubricating, chemically-resistant PTFE stopcock plug
- Easy-to-read durable black ceramic enamel scale
- Replacement stopcock is 823001-0002.
- Designed from ASTM Specification E287, Class B requirements
- Ref: ASTM Method D1744
- 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

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
17051F-10	10	±0.04	1
17051F-25	25	±0.06	1
17051F-50	50	±0.10	1
17051F-100	100	±0.20	1



Class B Straight Bore Burets with PTFE Stopcock

Used in general purpose volumetric analysis and titrations where Class B tolerances are appropriate.

- Funnel fill style buret
- Replacement 2 mm straight bore PTFE stopcock plug is 821001-0002.
- Easy-to-read durable black ceramic enamel scale
- Designed from ASTM Specification E287, Class B requirements
- Ref: ASTM Method D974
- 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

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
17026F-10	10	±0.04	1
17026F-25	25	±0.06	1
17026F-50	50	±0.10	1
17026F-100	100	±0.20	1



Automatic Burets

KIMAX® buret 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 inch ID flexible tubing
- Easy-to-read durable black enamel scale
- Replacement 2 mm bore size three-way stopcock is 823001-0002.
- 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

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
17054F-10	10	±0.02	1
17054F-25	25	±0.03	1
17054F-50	50	±0.05	1
17054F-100	100	±0.10	1

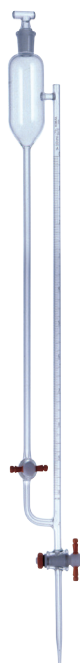


Micro Buret with Side Reservoir

Used for small volume titrations

- Side reservoir capacity is approximately 70 mL
- Easy-to-read durable white ceramic enamel scale
- Replacement 2 mm straight bore stopcock plug is 821001-0002, and replacement stopper is a medium length 14/20 standard taper glass stopper
- Supplied with two chemically-resistant, self-lubricating PTFE stopcock plugs
- 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

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
17132F-2	2	±0.01	1
17132F-5	5	±0.01	1
17132F-10	10	±0.02	1



Serialized and Certified Funnel Top Micro Buret with Straight Bore PTFE Stopcock

Used for small volume titrations requiring traceable volumetric accuracy.

- Precision bore buret is permanently marked with an individual serial number and is traceable to NIST standards
- Supplied with a Certificate of Graduation Accuracy
- Easy-to-read durable white ceramic enamel scale
- Funnel top accepts a one-hole #3 rubber stopper
- Replacement 2 mm straight bore stopcock plug is 821001-0002.
- Supplied with a chemically-resistant, self-lubricating PTFE stopcock plug
- Manufactured to the specifications found in ASTM E694
- Calibrated to the accuracy requirements found in ASTM Specification E542
- Ref: ASTM Method D974
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

A short length of glass tubing aids in filling the buret through the tip by vacuum if desired. Stopper and tubing are not supplied.

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
17110F-5	5	±0.01	1
17110F-10	10	±0.02	1



Dispensing Burets

Large capacity KIMAX® burets used for dispensing laboratory solvents or solutions for a variety of clinical and industrial applications.

- Supplied with a chemically-resistant, self-lubricating PTFE stopcock
- Easy-to-read durable white ceramic enamel scale
- Replacement 4 mm straight bore stopcock plug is 821001-0004.
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
17080F-250	250	±2.0	2
17080F-500	500	±2.5	2
17080F-1000	1000	±5.0	2



Tutwiler Gas Burets

This buret is designed for use with high sulfur content gas streams.

- Large ID connections reduce clogging when sulfur precipitates out and deposits on the inside of connectors
- Supplied with a size 4 glass stopcock in the bottom, a size 2 stopcock in the top and a size 13 glass pennyhead stopper
- Designed for use with method UOP 9-85
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Tolerance: Buret (mL)	Case Qty
30034A-100	100	±0.2	1



Neutral Oil and Loss Columns

Apparatus for the determination of total neutral oil of natural fats and oils consisting of triglycerides and unsaponifiable matter.

- Unique design of the flask allows the transfer of the weighed sample directly onto the column
- Supplied complete, as shown
- Stopcocks have PTFE plugs, and the column has a 40-60 micron porosity fritted disc
- Joints are Standard Taper 19/22 except for the extension tube, which is Standard Taper 7/25
- Ref: OACS Official Method Ca9f-57, JAOCs Vol. 46, No. 5, Pages 252-255
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Free fatty acids and miscellaneous non-fat substances are removed by passing the sample through a column of activated alumina. Losses are then calculated.

Kimble Cat. No.	Solvent Reservoir Capacity (mL)	Porosity (microns)	Case Qty
427100-0000	175	40-60	1

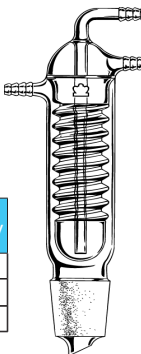


Friedrich Condenser with Hose Connection Sidearm

Friedrich condenser used primarily in reflux mode and Soxhlet extractions.

- Water inlet and outlet located above ring-sealed inner condensing tube
- Standard Taper inner drip joint and side outlet for drying tube, etc
- Molded inner spiral provides surface area for the condensation of the product
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Cold Finger Length (mm)	Standard Taper Joints	Case Qty
456250-0021	190	34/45	1
456250-0022	190	45/50	1
456250-0023	190	55/50	1



Friedrich Condenser with Standard Taper Sidearm

Friedrich condenser specially designed to provide a long vapor path, good heat transfer and anti-flooding characteristics.

- Molded inner spiral provides surface area for the condensation of the product
- Inclined Standard Taper outer joint on the side
- Water inlet and outlet located above ring-sealed inner condensing tube
- 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

Kimble Cat. No.	Jacket Length (mm)	Standard Taper Joints	Case Qty
437000-2440	225	24/40	1
437000-2942	225	29/42	1



Coil-Type Reflux Condenser with Two Upper Hose Barbs

Tightly wound coil provides enough surface area to condense high vapor pressure solvents like hexane.

- With an internal, coil-type cold finger
- Standard Taper outer joint at the top, Standard Taper inner drip joint at the bottom
- Two hose connectors at the top for water inlet and outlet
- Ref: ASTM Method D94, D95
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Approx. Condensing Area (cm ²)	Case Qty
283010-0000	94	1
457000-0125	115	1
457000-0175	170	1
457000-0225	229	1



Allihn Condensers with Full Length Joints

Used in many refluxing operations.

- Standard Taper drip joint at bottom and a Standard Taper outer joint at top
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Overall Height (mm)	Standard Taper Joints	Case Qty
431000-2420	370	24/40	1
431000-2425	425	24/40	1
431000-2430	470	24/40	1
431000-2440	570	24/40	1
431000-2920	380	29/42	1
431000-2930	480	29/42	1



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

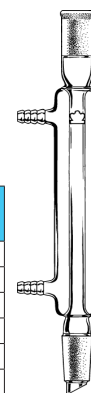
Kimble Cat. No.	Jacket Length (mm)	Standard Taper Joints	Case Qty
439000-2420	200	24/40	1
439000-2425	250	24/40	1
439000-2430	300	24/40	1
439000-2440	400	24/40	1



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

Kimble Cat. No.	Jacket Length (mm)	Standard Taper Joints	Case Qty
447000-2410	100	24/40	1
447000-2420	200	24/40	1
447000-2425	250	24/40	1
447000-2430	300	24/40	1
447000-2440	400	24/40	1
447000-2920	200	29/42	1



West Condenser with Full Length 24/40 Joints

The narrow annular space of the West design provides high cooling efficiency due to the increased flow rate of the cooling medium.

- Full length 24/40 joints
- Standard Taper outer joint at the top and 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



Kimble Cat. No.	Jacket Length (mm)	Standard Taper Joints	Case Qty
452000-2410	100	24/40	1
452000-2420	200	24/40	1
452000-2430	300	24/40	1

Class A Measuring Cylinders

- Letters "TC" on cylinder indicate to contain
- Pour spout
- SAFE-GARD® bumper is supplied
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Graduation Intervals (mL)	Tolerance (mL)	Case Qty
20027-10	10	0.1	±0.80	6
20027-25	25	0.2	±0.14	6
20027-50	50	1	±0.2	6
20027-100	100	1	±0.35	6
20027-250	250	2	±0.65	4
20027-500	500	5	±1.10	4
20027-1000	1000	10	±2.00	1
20027-2000	2000	20	±6.00	1



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 25mL through 2000 mL
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Tolerance (mL)	Case Qty
20028W-10	10	1 to 10	±0.09	6
20028W-25	25	2 to 25	±0.17	6
20028W-50	50	3 to 50	±0.25	6
20028W-100	100	5 to 100	±0.40	6
20028W-250	250	10 to 250	±0.80	4
20028W-500	500	25 to 500	±1.30	4
20028W-1000	1000	50 to 1000	±2.50	1
20028W-2000	2000	100 to 2000	±6.00	1



Class B Cylinders with 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
- 10 mL size has an enlarged funnel top for ease of filling
- Ref: ASTM Method D86, D892
- Provided with a hexagonal base flat ground for stability and a SAFE-GARD® bumper on sizes 25 mL and larger
- 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

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Tolerance (mL)	Case Qty
20022-10	10	1 to 10	±0.1	12
20022-25	25	3 to 25	±0.3	1
20022-50	50	3 to 50	±0.4	12
20022-100	100	5 to 100	±0.6	12
20022-250	250	10 to 250	±1.4	6
20022-500	500	25 to 500	±2.6	4
20022-1000	1000	50 to 1000	±5.0	4
20022-2000	2000	100 to 2000	±10.0	2



Class B Cylinders with Single Metric Scale and Red Stripe

- "TD" appears on each cylinder and indicates the cylinder is calibrated to deliver
- SAFE-GARD® bumpers are supplied with sizes 25 through 2000 mL
- The 10 mL size has an enlarged funnel-shaped top for ease of filling
- Designed from ASTM Specification 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

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Tolerance (mL)	Case Qty
20024D-10	10	1 to 10	±0.1	24
20024D-25	25	2 to 25	±0.3	24
20024D-50	50	3 to 50	±0.4	24
20024D-100	100	5 to 100	±0.6	24
20024D-250	250	10 to 250	±1.4	12
20024D-500	500	25 to 500	±2.6	8
20024D-1000	1000	50 to 1000	±5.0	4
20024D-2000	2000	100 to 2000	±10.0	4



Class B Cylinders for Emulsion Test

- KIMAX® cylinder used in the determination of emulsifying and demulsifying tendencies of lubricating oils (ASTM D1401).
- "TC" appears on each cylinder and indicates the cylinder is calibrated to contain
- Round base to fit baths in which this cylinder is generally used
- Pour spout
- Ref: ASTM Method D1401
- Scale is durable white ceramic enamel
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
20011-100	100	±1.0	1

Class B Cylinders with Single Metric Scale and Glass Stopper

The 250 mL size may be used to determine unsaponified matter in soaps and soap products (ASTM D460), and anhydrous salt free soda soap and fatty matter in soaps containing synthetic detergents (ASTM D820). The 500 mL size may be used in settlement tests of emulsified asphalts (ASTM D244).

- KIMAX® cylinder with durable white ceramic enamel scale
- Letters "TC" on cylinder indicate to contain
- The 10 and 25 mL sizes are comparatively short to provide increased stability
- Standard Taper glass stopper is supplied
- Heights given below do not include the stopper
- Replacement stopper is 850100
- Designed from ASTM Specification E1272, Style II, Class B requirements
- Ref: ASTM Methods D244, D1094
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
20039-50	50	±0.4	24
20039-100	100	±0.6	24
20039-250	250	±1.4	8
20039-500	500	±2.6	6
20039-1000	1000	±5.0	4
20039-2000	2000	±10.0	2

Hydrometer Cylinders with Pour Spout

- KIMAX® plain, ungraduated cylinder with a hexagonal base flat ground for stability
- Approximate wall thickness is 1.5 mm
- Ref: ASTM Method D287, D1298
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Kimble Cat. No.	Capacity (mL)	Diameter (mm)	Case Qty
20058-38200	175	38	1
20058-38375	340	38	1
20058-50375	600	50	1
20058-63460	1200	63	1

Dean Stark Distillation Receivers

Ideally suited for the determination of water content in organic solvents.

- Dean Stark design for solvents that are classified as either heavier than water or lighter than water
- Unit is compact in both the Standard Taper 24/40 and Standard Taper 14/20 sizes
- Lower three-way stopcock provides a sample port, and the apparatus can be drained without disassembly
- Trap area is positioned well above the boiling flask
- Thermometer joint is Standard Taper 10/30. Stopcock plug is 822501-0002
- Ref: Design suggested by Dr. A. J. East, Celanese Corp
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Kimble Cat. No.	Capacity (mL)	Graduation Intervals (mL)	Case Qty
535801-0000	20	0-3 in 0.2, 3-20 in 0.5	1

Modified Dean Stark Distillation Receiver

- KIMAX® distilling receiver with full length Standard Taper 24/40 joints and a siphon return arm
- Ref: ASTM Method D95
- Sidearm bridge equalizes pressure
- Designed from ASTM Specification E123, Style A
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
22012-10	10	±0.05 (1st set of subdivisions), ±0.1 (2nd set of subdivisions)	1



Bidwell-Sterling Moisture Test Distillation Receiver

Bidwell-Sterling designed for the determination of moisture in foods and organics.

- Made to ASTM specifications E123
- Also conforms to many methods of the American Oil Chemists Society
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Subdivision (mL)	Case Qty
751350-0005	5	0.1	1
751351-0005	5	0.05	1



General Distillation Apparatus

KIMAX® apparatus used in general purpose distillation and phenol distillation.

- Flask has a flat bottom and a distillation head with a 19/38 joint
- Supplied with a Standard Taper stopper
- Condenser is Graham-style, having a 200 mm jacket with a 19/38 joint at the top only
- For method, reference APHA Examination of Water and Wastewater: Method 4500-NH₃ nitrogen (ammonia) in purified drinking water, natural water, and highly purified wastewaters (concentration < 20 µg/L)
- Method calls for use with tall form 50 mL Nessler Tubes (45315A & B-50)
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Case Qty
21500-500	500	1
21500-1000	1000	1



Engler Distilling Flasks

KIMAX® distilling flask.

- Sidearm tube is sealed at an angle of 75° from the neck and is 137 ± 3 mm from the bottom of the flask
- Designed from ASTM Specification E133 and intended for use in ASTM D86, D233, D801, and D802
- Ref: ASTM Method D86
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Arm OD (mm)	Case Qty
26015-125	125	7	24



Engler Distilling Flasks with 19/22 Standard Taper Joint

KIMAX® distilling flask.

- Sidearm tube is sealed at an angle of 75° from the neck and is 137 ± 3 mm from the bottom of the flask
- 19/22 Standard Taper Joint
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Arm OD (mm)	Case Qty
26015G-125	125	7	24

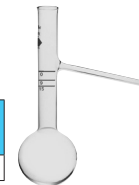


Engler Distilling Flasks with Three Reference Lines

For use with Haage automatic distillation apparatus or others that call for three thermometer depth insertions.

- Sidearm tube is sealed at an angle of 75° from the neck and is 137 ± 3 mm from the bottom of the flask three reference lines
- Ref: ASTM D86
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Arm OD (mm)	Case Qty
26016-125	125	7	24



Barrett Distilling Flasks

- Barrett flasks made to ASTM E133 specifications
- These flasks feature smooth, consistent, heavy walls for uniform heating and minimal breakage
- Supplied with one cork for the sidearm
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

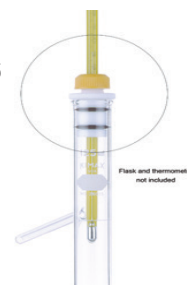
Kimble Cat. No.	Capacity (mL)	Type	Case Qty
610910-0125	125	Engler	12
610900-0200	200	Barrett	24



Thermometer Centering Device

Designed for 6.5 mm OD manual thermometer or 1/4" temperature sensor probe as used on standard AutomatedDistillation Apparatus with Kimble 26015-125 flasks.

- Fits glassware designed for rubber stopper size 2
- PTFE body with FKM o-ring seal assures proper centering of sensor probe in flask neck
- Cap material is yellow polypropylene
- Ref: ASTM Method D86



Kimble Cat. No.	Body OD (mm)	Case Qty
26015C-125	6.5	1



Class A Volumetric Flasks with Polyethylene Stopper

- KIMAX® flask with a graduation ring blasted on the neck
- Calibrated to contain
- With a marking spot on sizes 10 mL and larger
- Supplied with a 28160R 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

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
28014P-5	5	±0.02	12
28014P-10	10	±0.02	12
28014P-25	25	±0.03	12
28014P-50	50	±0.05	12
28014P-100	100	±0.08	12
28014P-200	200	±0.10	12
28014P-250	250	±0.12	12
28014P-500	500	±0.20	12
28014P-1000	1000	±0.30	6
28014P-2000	2000	±0.50	4



Serialized and Certified Class A Micro Volumetric Flasks with Glass Stopper

Volumetric flasks are ideal for measuring accurate volumes of liquids.

- Letters "TC" on the flask indicate to contain
- KIMAX® flask is permanently marked with an individual serial number and a marking spot
- Supplied with a Certificate of Graduation Accuracy
- Graduation ring blasted on the neck
- Standard Taper ground glass stopper is supplied with the flask
- Cylindrical bodies allow for better mixing, draining and withdrawal of samples by pipet
- Wide base (circular for sizes 1, 2, and 5 mL and hexagonal for sizes 10 and 25 mL) imparts much greater stability than is possible with a conventionally shaped flask
- Sizes 1-5 mL are designed from recommendations published by the Committee on Microchemical Apparatus of the Analytical Division, American Chemical Society, "Analytical Chemistry," 28, page 1993 (Dec. 1956).
- All sizes are designed from ASTM Specification E237, Class A serialized requirements
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
28017A-1	1	±0.010	6
28017A-2	2	±0.015	6
28017A-5	5	±0.020	6
28017A-10	10	±0.020	6
28017A-25	25	±0.030	6



Serialized and Certified Class A Volumetric Flasks with Pennyhead Glass Stoppers

Volumetric flasks are ideal for measuring accurate volumes of liquids.

- KIMAX® flask is permanently marked with an individual serial number and supplied with a Certificate of Graduation Accuracy.
- Graduation ring is blasted on the neck
- Letters "TC" on the flask indicate to contain
- Supplied with a marking spot and a Standard Taper ground glass stopper
- These flasks have been carefully selected to meet the requirements for accuracy, appearance, glass quality, calibration line, and inscriptions of former NBS Circular 602
- Designed from ASTM Specification E288, Class A serialized requirements
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
28017-10	10	±0.02	12
28017-25	25	±0.03	12
28017-50	50	±0.05	12
28017-100	100	±0.08	12
28017-200	200	±0.10	12
28017-250	250	±0.12	12
28017-500	500	±0.20	12
28017-1000	1000	±0.30	6
28017-2000	2000	±0.50	4



Class A Volumetric Flasks with Pennyhead Glass 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
- Replacement stopper is 850100
- Sizes 5 mL and larger are designed from ASTM Specification E288, Class A requirements
- 1 and 2 mL 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

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
28014-1	1	±0.010	12
28014-2	2	±0.015	12
28014-5	5	±0.02	12
28014-10	10	±0.02	12
28014-25	25	±0.03	12
28014-50	50	±0.05	12
28014-100	100	±0.08	12
28014-200	200	±0.10	12
28014-250	250	±0.12	12
28014-500	500	±0.20	12
28014-1000	1000	±0.30	6
28014-2000	2000	±0.50	4



Class A Volumetric Flasks with Color-Coded PTFE Stopper

- KIMAX® flask with a graduation ring blasted on the neck
- Calibrated to contain
- With a marking spot on 10 mL and larger sizes
- The 2 mL size is test tube-shaped. All other sizes are of a conventional flask shape
- Supplied with a PTFE Standard Taper stopper which has a color-coded handle
- Replacement stopper is 41901R
- The 5 mL and larger sizes are 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

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
28014F-2	2	±0.015	12
28014F-5	5	±0.02	12
28014F-10	10	±0.02	12
28014F-25	25	±0.03	12
28014F-50	50	±0.05	12
28014F-100	100	±0.08	12
28014F-200	200	±0.10	12
28014F-250	250	±0.12	12
28014F-500	500	±0.20	12
28014F-1000	1000	±0.30	6
28014F-2000	2000	±0.50	4



Jointed Narrow Mouth Erlenmeyer Flasks

- Single neck flask with a Standard Taper outer joint.
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Standard Taper Joints	Case Qty
296500-0005	5	14/20	1
296500-0010	10	14/20	1
296500-0015	15	14/20	1
296500-0025	25	14/20	1
296500-0050	50	14/20	1
296500-0100	100	14/20	1
296500-0125	125	14/20	1
296510-0025	25	19/22	1
296510-0050	50	19/22	1
296510-0100	100	19/22	1
296510-0125	125	19/22	1
296510-0250	250	19/22	1
617000-0124	50	24/40	1
617000-0224	125	24/40	1
617000-0424	250	24/40	1
617000-0624	500	24/40	1
617000-0724	1000	24/40	1
617000-0824	2000	24/40	1
617000-1024	4000	24/40	1
617000-1124	6000	24/40	1
617000-0229	125	29/42	1
617000-0429	250	29/42	1
617000-0629	500	29/42	1
617000-0729	1000	29/42	1
617000-0829	2000	29/42	1
617000-0834	2000	34/45	1
617000-0645	500	45/50	1
617000-0745	1000	45/50	1
617000-0845	2000	45/50	1
617000-1045	4000	45/50	1
617000-1145	6000	45/50	1



Jointed, Narrow Mouth Erlenmeyer Flasks with Capacity Scale

- Flasks have 24/40 standard taper joint except for 50 mL flask, which has a 19/38 standard taper joint
- With capacity scale
- KIMAX® flask with a full length Standard Taper ground glass neck finish
- Ref: ASTM Method D94
- Designed from ASTM Specification E1404, Type II, Class I requirements
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Case Qty
26510-50	50	20 to 50	12
26510-125	125	50 to 125	12
26510-250	250	50 to 225	12
26510-500	500	100 to 500	12
26510-1000	1000	250 to 1000	12
26510-2000	2000	600 to 2000	1



Narrow Mouth Erlenmeyer Flasks

KIMAX® flasks for economy and versatility. These flasks are the choice for general laboratory usage.

- Tops are reinforced and tooled with a rounded finish, containing more glass to give them maximum mechanical strength
- Body is thick-walled, with a long tapered outside contour to minimize chipping when struck or rubbed together
- All flasks have durable white ceramic enamel scales to indicate approximate volumes at various levels, useful in measuring and mixing solutions where a high degree of accuracy is not necessary
- Designed from ASTM Specification E1404, Type I, Class I requirements
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Case Qty
26500-25	25	10 to 25	48
26500-50	50	20 to 50	48
26500-125	125	50 to 125	48
26500-250	250	50 to 225	48
26500-300	300	100 to 300	48
26500-500	500	100 to 500	36
26500-1000	1000	250 to 1000	24
26500-2000	2000	600 to 2000	8
26500-4000	4000	1000 to 4000	1
26500-6000	6000	1500 to 6000	1



Wide Mouth Erlenmeyer Flasks

- Heavy-duty tooled-top finish with capacity scale
- KIMAX® flask with a wide mouth.
- Designed from ASTM Specification E1404, Type I, Class II requirements
- Ref: ASTM Method D473
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Case Qty
26650-125	125	50 to 125	48
26650-250	250	50 to 225	48
26650-500	500	100 to 500	36
26650-1000	1000	250 to 1000	24
26650-2000	2000	600 to 2000	8



Graduated Filtering Flask 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

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Case Qty
27060-25	25	5 to 25	18
27060-50	50	20 to 50	18
27060-125	125	50 to 125	18
27060-250	250	50 to 250	18
27060-500	500	150 to 500	18
27060-1000	1000	300 to 1000	12
27060-2000	2000	600 to 2000	1
27060-4000	4000	1000 to 4000	1



Three Vertical Neck Round Bottom Flask

- Three-neck heavy wall round-bottom flask with Standard Taper outer joints
- Side necks are vertical
- Ref: ASTM Method D1744
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Standard Taper Joints: Center	Case Qty
606000-0224	100	24/40	1
606000-0624	250	24/40	1
606000-4824	250	29/42	1
606000-4829	250	29/42	1
606000-1024	500	24/40	1



Flat Bottom Short Neck Boiling Flask

- KIMAX® boiling flask with a short 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

Kimble Cat. No.	Capacity (mL)	Body OD (mm)	Case Qty
25055-125	125	65	12
25055-250	250	83	12
25055-300	300	87	12
25055-500	500	102	12
25055-1000	1000	130	12



Round Bottom Short Neck Flask

- KIMAX® boiling flask with a round bottom
- 25276 series has a medium length Standard Taper 14/20 joint
- 25277 series has a medium length Standard Taper 19/22 joint
- 25285 series has a full length Standard Taper 24/40 joint
- 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

Kimble Cat. No.	Capacity (mL)	Body OD (mm)	Case Qty
25276-100	100	63	12
25276-250	250	82	12
25277-100	100	63	12
25277-250	250	82	12
25277-500	500	102	12
25285-50	50	48	12
25285-100	100	63	12
25285-200	200	75	12
25285-250	250	83	12
25285-300	300	88	12
25285-500	500	102	12
25285-1000	1000	130	12
25285-2000	2000	161	6
25285-3000	3000	185	6



Flat Bottom Boiling Flasks

- KIMAX® flasks have a low coefficient of expansion to resist thermal shock
- They are constructed with sturdy walls to minimize mechanical breakage and reinforced tooled tops for strength and a secure stopper fit
- Designed from ASTM Specification E1403, Type I, Class I requirements
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Body OD (mm)	Case Qty
25000-500	500	102	6
25000-1000	1000	130	6
25000-6000	6000	234	1



Single Standard Taper Neck Round Bottom Flask

- Single neck flask with a Standard Taper outer joint
- Ref: ASTM Method D95
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Body OD (mm)	Case Qty
601000-0124	50	48	1
601000-0129	50	48	1
601000-0224	100	64	1



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

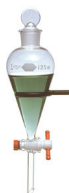
Kimble Cat. No.	ID at Funnel Top (mm)	Length of Stem (mm)	Case Qty
28950-25	25	40	24
28950-35	35	50	24
28950-45	45	50	24
28950-55	55	63	48
28950-65	65	63	48
28950-75	75	75	48
28950-90	90	97	24
28950-100	100	97	24



KIMAX® Squibb Separatory Funnel 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

Kimble Cat. No.	Capacity (mL)	Stopcock Bore Size (mm)	Case Qty
29048F-30	30	2	4
29048F-60	60	2	4
29048F-125	125	2	4
29048F-250	250	4	4
29048F-500	500	4	4
29048F-1000	1000	4	2
29048F-2000	2000	6	2



1-1/2" Stem Powder Addition Funnels

- KIMAX® funnel with a short, wide stem
- Constructed with a heavy uniform wall and a strong, fire-polished rim and stem to provide a long service life
- Funnel has a high resistance to chemical attack and mechanical and thermal shock
- Designed from ASTM Specification E1095, Type IV requirements
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	ID at Funnel Top (mm)	Length of Stem (mm)	Case Qty
29020-60	60	35	24
29020-80	80	35	24
29020-100	100	35	24
29020-125	125	35	12
29020-150	150	35	12

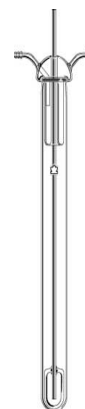


Oxidation Cell

Used in the measurement of inherent stability of middle distillate petroleum fuel under accelerated oxidizing conditions.

- The cell consists of a test tube, a condenser and an oxygen delivery tube
- Ref: ASTM D943 and D2274
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type 1 and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Overall Height (mm)	OD (mm)	Case Qty
896600-0000	600	45	1

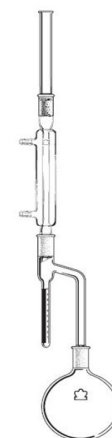


Petrochemical Distillation Apparatus for Water in Crude Oil

This apparatus is used for the determination of water in crude oil by distillation.

- Apparatus includes a 1000 mL round bottom flask with Standard Taper 24/40 joint, a distillation receiver with 0.05 graduations, a drying trap and a 400 mL Liebig condenser
- Ref: ASTM D4006
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Case Qty
513970-0000	1



Petrochemical Filter Stick Apparatus with Hooks and Springs

- Apparatus used in the determination of oil content and solvent extractables in petroleum waxes.
- Assembly consists of a sintered glass filter stick with air pressure inlet tube and delivery nozzle and a cooling tube with 24/40 joints
- Supplied with one pair of springs
- Ref: ASTM D721
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Kimble Cat. No.	Standard Taper Joints	Case Qty
513880-0000	24/40	1

Unserialized Reusable To Deliver Volumetric Class A Pipets

- Calibrated To Deliver (TD)
- Color coded
- Designed from ASTM Specification E969, Class A requirements
- 75 and 200 mL sizes are designed from ASTM E542
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
37002-1	1	± 0.006	12
37002-1510	1.5	± 0.006	12
37002-2	2	± 0.006	12
37002-2510	2.5	± 0.006	12
37002-3	3	± 0.01	12
37002-4	4	± 0.01	12
37002-5	5	± 0.01	12
37002-6	6	± 0.01	6
37002-7	7	± 0.01	6
37002-8	8	± 0.01	6
37002-9	9	± 0.02	6
37002-10	10	± 0.02	12
37002-12	12	± 0.02	12
37002-15	15	± 0.03	12
37002-20	20	± 0.03	12
37002-25	25	± 0.03	12
37002-30	30	± 0.03	6
37002-40	40	± 0.05	6
37002-50	50	± 0.05	12
37002-75	75	± 0.05	6
37002-100	100	± 0.08	12
37002-200	200	± 0.16	6
37002-510	0.5	± 0.006	12



Reusable Class B Mohr Style Color-Coded TD Pipets

Designed with small tip openings for chemical laboratory work.

- Calibrated to deliver (TD)
- Scale is permanent brown stain fused into uniform bore tubing without etching
- Pipet is graduated to a base line which is on the straight tube above the taper
- Color-coded for ease in selecting the correct size pipet
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
37020-110	0.1	± 0.005	12
37020-1110	1	± 0.02	12
37020-11100	1	± 0.02	12
37020-2	2	± 0.02	12
37020-5	5	± 0.04	12
37020-10	10	± 0.06	12
37020-25	25	± 0.10	12
37020-50	50	± 0.16	8



Ramsbottom Coking Bulb

The Ramsbottom Coking Bulb is used in the determination of carbon residue in petroleum products.

- Ref: ASTM D524
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Overall Height (mm)	OD (mm)	Case Qty
896650-0000	57	25	6



Saybolt Viscosity, Volumetric Flask, Class A

KIMAX® flask used in determining Saybolt viscosity of petroleum and bituminous materials as described in ASTM test methods D88 and E102. Made with heavy walls and a reinforced top. Graduation ring is blasted on the neck. Calibrated to contain. With marking spot.

Kimble Cat. No.	Capacity (mL)	± Tolerance (mL)	Case Qty
28126-60 *	60	0.05	1



Gas Measuring Tubes

KIMAX® gas measuring tube closed at the zero end for gas measurement.

- Durable black ceramic enamel scale
- Without stopcock
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
30060-50	50	± 0.10	1



Gas Sampling Tubes with Glass Plugs and Plain Ends

KIMAX® gas collecting tube with tubulations on each end of the tube.

- Tubulations accept 3/8 inch ID tubing
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Standard Taper Stopcock Size	Case Qty
30040-500	500	4	1



API Graduated Centrifuge Tubes

Used to determine the bottom sediment and water in petroleum.

- KIMAX® tube with a long taper
- Calibrated to contain
- Scale, legend and marking spot are durable white ceramic enamel
- Referred to as the "finger" tube
- Made in accordance with the former specifications of the American Petroleum Institute (API Standard 2542)
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Graduation Intervals (%):		Tolerance (%):	
0-3 in 0.2		0 to 1 – 0.10	
		Above 1 to 2 – 0.15	
3-10 in 0.5		Above 2 to 5 – 0.20	
		Above 5 to 10 – 0.40	
10-50 in 1		Above 10 to 25 – 0.50	
At 100		Above 25 – 1.00	
Kimble Cat. No.	Capacity (%)	Max RCF	Case Qty
45170-125	100 (12.5 mL)	2980	12



Goetz Graduated Centrifuge Tubes

KIMAX® tube used for the determination of small quantities of solids in large volumes of liquids. Recommended for the determination of free water and sediment in diesel and other distillate fuels, as a pass-fail indication of product quality (ASTM D2709).

- Calibrated to contain.
- Durable black ceramic enamel scale
- Replacement stopper is 850100
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

* Do not centrifuge with stopper in tube.

- Stem graduations in 0.01 mL to 0.2 mL with a tolerance of ± 0.01 mL
- Body graduation at 25 mL with a tolerance of ± 1.0 mL
- Body graduations at 50 and 100 mL with a tolerance of ± 2.0 mL

Kimble Cat. No.	Capacity (mL)	Tolerance (mL)	Case Qty
45220-100	100	0 to 0.2 - ± 0.01 , at 25 - ± 1.00 , above 25 - ± 2.00	6



Graduated Test Tubes with Beaded Rim

- Excellent choice for general laboratory use
- Plain top, beaded rim
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Graduation Range (mL)	Case Qty
898250-0005	5	0-5	1
898250-0025	25	0-25	1



Pear-Shaped Centrifuge Tubes with White Scale

KIMAX® tube used in the determination of bottom sediment and water in petroleum products.

- Calibrated to contain
- Stem diameter holds 1.5 mL
- Scale and legend are durable white ceramic enamel
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



45244-100			
Graduation Intervals (mL):		Tolerance (mL):	
0-1.5 in 0.1		0 to 1.5 - ± 0.03	
1.5-5 in 0.5		Above 1.5 to 3 - ± 0.20	
		Above 3 to 5 - ± 0.30	
5-10 in 1		Above 5 to 10 - ± 0.50	
10-25 in 5		Above 10 to 25 - ± 1.0	
At 50 and 100		Above 25 - ± 2.0	
45244-200			
Graduation Intervals (%):		Tolerance (mL):	
0-3 in 0.1		0 to 1.5 - ± 0.03	
		Above 1.5 to 3 - ± 0.2	
3-5 in 0.5		Above 3 to 5 - ± 0.3	
5-10 in 1		Above 5 to 10 - ± 0.5	
10-100 in 10		Above 10 to 25 - ± 1.0	
100-200 in 20		Above 25 - ± 2.0	
Kimble Cat. No.	Capacity (mL)	Max RCF	Case Qty
45244-100	100	800	12
45244-200	100 (200%)	800	6

Pear-Shaped Centrifuge Tubes with Red Scale

Graduated tube is used for the determination of water and sediment in petroleum products.

- Top is tooled for a size 5 rubber stopper
- Calibrated to contain
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Graduation Intervals (mL)	Case Qty
412510-0000	100	0-3 x 0.1, 3-10 x 0.5, and at 15, 20, 25, 50, and 100	1



8" Oil Centrifuge Tubes

KIMAX® tube used in the determination of water and sediment in crude mineral oils, fuel oils and other petroleum products (D1796 and MPMS 10.4 standards); in determination of volume of precipitate formed by centrifuging definite quantities of steam cylinder stocks and black oils and other lubricating oils (ASTM D91 and D128); and in testing for acidity of distillation residues or hydrocarbon liquids of gasoline or petroleum solvents (ASTM D1093).

- Calibrated to contain
- Scale and legend are durable white ceramic enamel
- Top is tooled to accept snap cap 28150R-6
- Referenced in ASTM D4007, D91, D1796, D1093
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Graduation Intervals (mL)	Case Qty
45240-100	100	0-0.5 in 0.05, 0.5-2 in 0.1, 2-3 in 0.2, 3-5 in 0.5, 5-10 in 1, 10-25 in 5, 25-100 in 25	12



6" Short Cone Oil Centrifuge Tubes

KIMAX® tube designed for field use in testing petroleum.

- Calibrated to contain
- Scale and legend are durable white ceramic enamel
- 45243-200 is graduated in %. 100 mL equals 200%
- Top is tooled to accept snap cap 28150R-6
- Referenced in ASTM D4007
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Graduation Intervals (mL)	Case Qty
45243-100	100	0-0.5 in 0.05, 0.5-2 in 0.1, 2-3 in 0.2, 3-5 in 0.5, 5-10 in 1, 10-25 in 5, and at 50, 100	12
45243-200	200	0-0.1% in 0.10%, 1-4 in 0.20, 4-6 in 0.40, 6-10 in 1, 10-20 in 2, 20-50 in 10, and at 100, 200	6



California Centrifuge Tube with Red Stripe

KIMAX® conical bottom centrifuge tube is used for testing of petroleum products according to ASTM D91, D893 and D1796.

- Tube has a permanent red stripe under the white enamel graduations for easy reading of results
- Scale and legend are durable white ceramic enamel
- Top is tooled to accept snap cap 28150R-6
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

KIMBLE Cat. No.	Capacity (mL)	Graduation Intervals (mL)	Case Qty
45239-100	100	0-0.5 in 0.05, 0.5-2 in 0.1, 2-3 in 0.2, 3-5 in 0.5, 5-10 in 1, 10-25 in 5, and at 50, 75, 100	12



8" Oil and Weathering (End Point Index) Centrifuge Tubes

Can be used in the determination of residues in Liquefied Petroleum (LP) gases, ASTM Method D2158.

- KIMAX® tube used extensively in California
- Calibrated to contain
- Different graduations than 45240
- Scale and legend are durable white ceramic enamel
- Top is tooled to accept snap cap 28150R-6
- Ref: ASTM Method D2158
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	Capacity (mL)	Graduation Intervals (mL)	Case Qty
45241-100	100	0-1 in 0.05, 1-3 in 0.1, 3-6 in 0.2, 6-10 in 0.5, 10-100 in 1	12



Soil Analysis Tube

These tubes are designed for use with Teledyne Tekmar 2016/2032 Autosamplers and 4100/4200 Automatic Samplers that are equipped with 3/4" diameter mounts.

- The larger opening of these disposable tubes permits easier sample loading and facilitates the weighing of solid and soil samples
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Kimble Cat. No.	OD (mm)	Length (mm)	Case Qty
591175-0715	19	150	24



Cannon-Fenske Uncalibrated Serialized Viscometer Tubes

Cannon-Fenske uncalibrated viscometer tube for use in obtaining kinematic viscosities of transparent liquids (ASTM Method of Test D445).

- KIMAX® tube designed from ASTM Specification D446
- Permanently marked with an individual serial number
- Viscosity ranges shown below are for an efflux time greater than 200 seconds
- Lines and legend are printed black
- Ref: ASTM Method D445
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Calibration against a standard liquid of known viscosity or against a second viscometer with a known constant must be made before use.

Kimble Cat. No.	Approximate Constant	Kinematic Centistokes	Size	Case Qty
46460-50	0.004	0.8 to 4	50	1
46460-100	0.015	3 to 15	100	1
46460-150	0.035	7 to 35	150	1
46460-200	0.1	20 to 100	200	1
46460-300	0.25	50 to 250	300	1
46460-350	0.5	100 to 500	350	1
46460-400	1.2	240 to 1200	400	1



ASTM METHODS

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