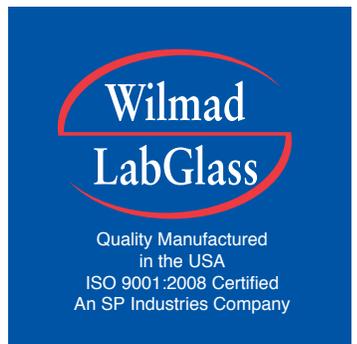


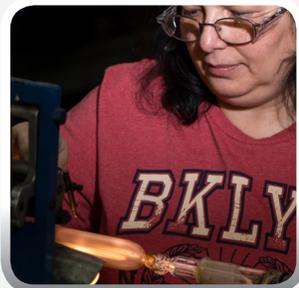
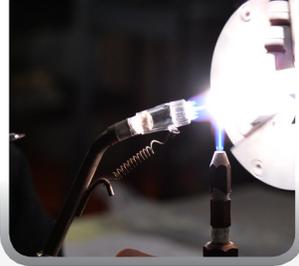
# Wilmad - LabGlass

ASTM & Petrochemical Glassware

2014



# Wilmad



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# ASTM-D86

STANDARD TEST METHOD FOR

# DISTILLATION OF PETROLEUM PRODUCTS AT ATMOSPHERIC PRESSURE

Available in borosilicate and quartz glassware. Compatible with both manual and automated D86 distillation analyzers

## PAC® OptiDisk Distillation Flask

ASTM-D86

Olive on sidearm and tooled top for centering device

Product Number	Capacity (mL)	Height (mm)	Material	Price
LG-7225-100-BTO	125	215	Pyrex	\$25.77
LG-7225-100-BTO-QTZ	125	215	Quartz	\$125.24
LG-7225-102-BTO	200	215	Pyrex	\$38.80



## ISL® 5G Distillation Flask

ASTM-D86

Beaded rim top for centering device

Product Number	Capacity (mL)	Height (mm)	Material	Price
LG-7225-100-BT	125	215	Pyrex	\$20.93
LG-7225-100-BT-QTZ	125	215	Quartz	\$122.13
LG-7225-102-BT	200	215	Pyrex	\$33.96



## Herzog® HDA 627 & Petrotest ADU 4 Distillation Flask

ASTM-D86

§ 19/26 top joint for centering device

Product Number	Capacity (mL)	Height (mm)	Material	Price
LG-7222-102	125	215	Pyrex	\$27.63
LG-7222-104	200	215	Pyrex	\$37.89



## ASTM-D86

STANDARD TEST METHOD FOR

DISTILLATION OF PETROLEUM  
PRODUCTS AT ATMOSPHERIC PRESSURE

Herzog® & Precision Scientific Distillation Flask

ASTM-D86

Tooled top for centering device

Product Number	Capacity (mL)	Height (mm)	Material	Price
LG-7227-102	125	215	Pyrex	\$20.93
LG-7227-102-QTZ	125	215	Quartz	\$122.13
LG-7227-106	200	215	Pyrex	\$33.96
LG-7227-106-QTZ	200	215	Quartz	\$137.66
LG-7227-104	Centering Device		PTFE	\$67.13



D86 Receiver with Glass Base

ASTM-D86

Precision bore with pouring spout. Glass base is epoxied onto cylinder.

Product Number	Capacity (mL)	Height (mm)	Material	Price
LG-D86-100	100	255	Pyrex	\$93.41



## ASTM-D482

STANDARD TEST METHOD FOR

ASH FROM PETROLEUM PRODUCTS

Quartz Evaporating Dish

ASTM-D482

Product Number	Capacity (mL)	Material	Price
LG-D482-100	120	Quartz	\$136.62



## ASTM-D1160

STANDARD TEST METHOD FOR

## DISTILLATION OF PETROLEUM PRODUCTS AT REDUCED PRESSURE

500 mL Distillation Flask

ASTM-D1160

Distillation flask with thermal well. Available in glass and quartz.

Product Number	Capacity (mL)	Top Socket	Material	Price
LG-D1160-100	500	35/25	Pyrex	\$126.14
LG-D1160-100Q	500	35/25	Quartz	\$245.92



## ASTM-D1319

STANDARD TEST METHOD FOR

## HYDROCARBON TYPES IN LIQUID PETROLEUM PRODUCTS BY FLUORESCENT INDICATOR ADSORPTION

FIA Column

ASTM-D1319

Used to determine saturates, nonaromatic olefins, and aromatics in petroleum fractions that distill below 315 °C as specified in ASTM D-1319 method. The standard column is drawn to a fine point for retaining silica gel. The precision bore column has a removable capillary tip joined to the analyzer section by a 12/2 spherical joint. Columns have a 28/12 socket joint at the top.

Product Number	Description	Length (mm)	Price
LG-5931-098	Plain End Adsorption Column	415	\$72.45
LG-5931-100	Standard Adsorption Column Complete	1600	\$83.42
LG-5931-102	Precision Bore Adsorption Column Complete with Removable Tip	1600	\$228.17
LG-1045-102	#12 Pinch Clamp - connects precision adsorption column to socket tip		\$12.87
LG-1045-110	#28 Pinch Clamp - connects ball adapter to all LG-5931 adsorption columns		\$18.58



## ASTM-D525

STANDARD TEST METHOD FOR

## OXIDATION STABILITY OF GASOLINE

### Oxidation Sample Container and Cover

ASTM-D525

The cover prevents condensed vapors in bomb stem from contaminating the sample, but does not interfere with free flow of oxygen.

Product Number	Height (mm)	OD (mm)	Description	Price
LG-D525-100			Complete	\$63.11
LG-D525-102	200	48	Container	\$51.57
LG-D525-104	12.7	44.5	Cover	\$18.07



## ASTM-D97

STANDARD TEST METHOD FOR

## POUR POINT OF PETROLEUM PRODUCTS

### Pour Point Jar

ASTM-D97

A cylindrical test jar (tube) with a flat bottom and etched graduation line around circumference at 54 mm from the inside bottom.

Product Number	Top	Height (mm)	Price
LG-D97-102	Beaded	119	\$13.11
LG-D97-106	Plain	119	\$12.42



## ASTM-D88

STANDARD TEST METHOD FOR

## SAYBOLT VISCOSITY

### Flask, Volumetric, Unstoppered, Saybolt Viscosity, TC, Class A

ASTM-D88

Calibrated to contain at 20 °C. Flasks are made from heavy wall blanks. Top has a reinforced lip. Each flask is provided with a marking spot.

Product Number	Capacity (mL)	Height (mm)	Volume Tolerance (mL)	Price
LG-8194-100	60	84	0.05	\$33.40



# ASTM-D96

STANDARD TEST METHOD FOR

# IN-SERVICE MONITORING OF LUBRICATING OIL FOR AUXILIARY POWER PLANT EQUIPMENT

Water and sediment in crude oil by centrifuge methods.

## Long Centrifuge Tube

ASTM-D91, D96, D1093, D1347, D1796

Calibrated to contain. Used for determinations of water and sediment in petroleum and its products, including fuel oils and lubricating oils. See listed ASTM methods; also API Code 2500.

Product Number	Capacity (mL)	Subdivision (mL)	OD (mm)	Length (mm)	Price
LG-4470-100	100	0 to 5/10 in 5/100	38	200	\$47.16
		5/10 to 2 in 1/10			
		2 to 3 in 2/10			
		3 to 5 in 5/10			
		5 to 10 in 1			
		10 to 25 in 5			
25 to 100 in 25					



## Short Centrifuge Tube

ASTM-D91, D96, D1093, D1347, D1796

Calibrated to contain. See listed ASTM methods; also API Code 2500. Designed to be used in the field.

Product Number	Capacity (mL)	Subdivision (mL)	OD (mm)	Length (mm)	Price
LG-4472-100	100	0 to 5/10 in 5/100	45	165	\$62.89
		5/10 to 2 in 1/10			
		2 to 3 in 2/10			
		3 to 5 in 5/10			
		5 to 10 in 1			
		10 to 25 in 5 and at 50, 100			



## Bulb Centrifuge Tube

ASTM-D91, D96, D1093, D1347, D1796

Calibrated to contain. Lower stem calibrated to hold 1.5mL. See listed ASTM methods.

Product Number	Capacity (mL)	Subdivision (mL)	OD (mm)	Length (mm)	Price
LG-4490-100	100	1 to 1.5 in 1/10	58	158	\$82.48
		1.5 to 5 in 5/10			
		5 to 10 in 1			
		10 to 25 in 5			



# ASTM-D2273

STANDARD TEST METHOD FOR

## TRACE SEDIMENT IN LUBRICATING OILS

### Capillary Tip Centrifuge Tube

ASTM-D2273, D2709

A capillary tipped long form 100 mL centrifuge tube designed for use in ASTM D2273 and ASTM 2709.



Product Number	Capacity (mL)	Subdivision (mL)	OD (mm)	Length (mm)	Price
LG-4474-100	100	0.005 to 0.01 in 5/1000	38	200	\$78.01
		0.01 to 0.05 in 1/100			
		0.05 to 0.5 in 5/100			
		and at 50, 100			

# ASTM-C188

STANDARD TEST METHOD FOR

## HYDRAULIC CEMENT

### Bottle, Specific Gravity, Le Chatelier, Class A

ASTM-C188, D115

Used to determine the specific gravity of sand, cement and other fine materials. Developed from ASTM C188 and ASTM E694. The body holds approximately 250 mL; oval bulb in the neck holds 17 mL. Volume below the bulb is graduated from 0 to 1.0 mL in 0.1 mL subdivisions, with an additional 0.1 subdivision below the 0 and above the 1.0 mL mark. The neck is graduated from 18 to 24 mL in 0.1 mL subdivisions above the bulb with a 0.05 mL tolerance. The stopper is #13.

Product Number	Capacity (mL)	Height (mm)	Volume Tolerance (mL)	Price
LG-3543-100	250		0.05	\$134.17



## ASTM-D70

STANDARD TEST METHOD FOR

## DENSITY OF SEMI-SOLID BITUMINOUS MATERIALS (PYCNOMETER METHOD)

Bottle, Specific Gravity, Hubbard

ASTM-D70

Used in standard test methods for specific gravity of asphalt cements, road tars, road oils, and soft tar pitches. The stopper has a hole approximately 1.6 mm in diameter through the center to allow excess sample to escape. Reference also AASHTO Method T 43

Product Number	Capacity (mL)	Height (mm)	Stopper	Price
LG-3541-100	24	72	24/12	\$95.83



Bottle, Specific Gravity, Hubbard-Carmick

ASTM-D70

For use with viscous fluids, semi-solid bitumens and emulsions.

Product Number	Capacity (mL)	Height (mm)	Stopper	Price
LG-3542-100	25	55	24/12	\$110.21



## ASTM-D1401

STANDARD TEST METHOD FOR

## WATER SEPARABILITY OF PETROLEUM OILS AND SYNTHETIC FLUIDS

Cylinder

ASTM-D1401

100 mL glass cylinder, graduated from 5 to 100 mL in 1.0 mL subdivision. Designed for ASTM D1401.

Product Number	Capacity (mL)	Height (mm)	Subdivision (mL)	Price
LG-D1401-100	100	227	1.0	\$20.91



## ASTM-D6371

STANDARD TEST METHOD FOR

COLD FILTER PLUGGING POINT  
OF DIESEL AND HEATING FUELS

Cold Filter Plugging Point

ASTM-D6371

Available for both manual and automated CFPP instruments. Automated version shown. Manual does not include upper socket and copper ring.

Product Number	Socket	Ring	Compatibility	Price
LG-D6371-100	12/5	Copper	ISL®	\$77.83
LG-D6371-102	None	None	Manual	\$57.13



## ASTM-D2699

STANDARD TEST METHOD FOR

RESEARCH OCTANE NUMBER  
OF SPARK-IGNITION ENGINE FUEL

Fuel Blending Buret

ASTM-D2699

Fuel Blending Buret is graduated in percentage in ascending & descending scale.

Product Number	Glass Type	Capacity (mL)	Price
LG-D2699-100	Clear Glass	200 mL =100%	\$231.51



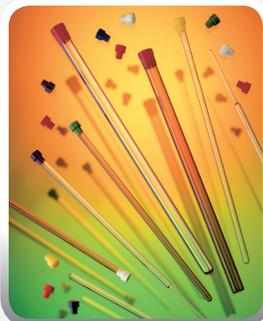
# Product Lines



**Lab Equipment**

- Circulators
- Distillation
- Evaporation
- Liquid Transfer
- Pilot Plant Reactor
- Stirring/Mixing
- Vortexers
- Heating Controls
- Shakers
- Centrifuges

- Standard NMR Tubes
- Small Volume Inserts
- Gas-tight Tubes
- NMR References
- Solid-State Rotors



**NMR/EPR Consumables & Accessories**

- Spinners and Washers
- L, S, X, Q and W-Band EPR Tubes
- VT Dewar
- Gas Transfer Lines
- EPR References
- EPR Aqueous Cells

- Air-Tite
- ASTM
- Dissolution
- Environmental
- Extraction
- Filtration
- Lab Kits
- Reaction Apparatus
- Standard Lab Glassware
- Custom Lab Glassware



**Lab Glassware**



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- Precision Grinding and Polishing
- Precision Cutting and End Finishing
- Glass to Metal Seals
- Lathe Fabrication
- Redraw Tubing
- Quartz Envelopes
- Quartz ICP Torches
- Optical Windows
- Square & Oval Tubes
- Syringe Barrels

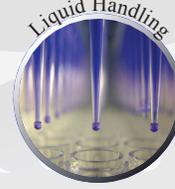
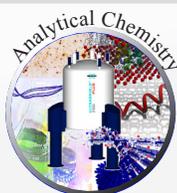
- Fast Turnover
- Cheaper than Replacement



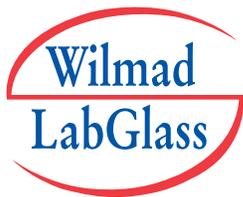
**Glass Repair**



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3



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