

Laboratory Supplies

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- **NEW! Filters for Solid-Phase Extraction**
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- **NEW! Sludge Judge Water Core Sampler**
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...and Much More!



Be Right™

Alcohol Pads — Bag, Whirl-Pak®



Alcohol Prep Pads

Individually wrapped, disposable pads measuring 1-1/8" x 2-3/8". 70% Isopropyl Alcohol.

Prod. No.	Unit
2938200	200 pads/box

Ampule Breakers

Designed to prevent contamination and speed testing. Breaker snaps ampule tip off.



Prod. No. 2196800



Prod. No. 2484600

Prod. No.	Description	Unit
2196800	Breaker Kit for Voluette® Ampules	each
2484600	Breaker for PourRite™ Ampules	each
2564000	Breaker for Presence/Absence Broth Ampules	each

Apron, Neoprene, Long Sleeve

Full front body protection against oils, tar, lacquers, most acids, caustics and alkalis. Includes four cotton ties 30.38-cm (12") long for adjustable back closure; easy to take off, put on.

Prod. No.	Size	Unit
2550202	medium	each
2550203	large	each
2550204	extra large	each



Apron, Vinyl

Stitched cotton edge binding. Tiebacks reinforced. Non-absorbent and chemically resistant.

Prod. No.	Unit
70100	Each



Autoclave, Steam

Simple "one-touch" controls operate each of 4 preset cycles. Conforms to EPA standards for sterilization of liquids. Chamber Dimensions: 10" diameter x 15.5" usable depth. Overall Dimensions (WxHxD): 16" x 18" x 23". Accessories included: stainless steel rack. Power: 120 V (UL certified).

Prod. No.	Description	Unit
2898600	Steam Autoclave	each

Autoclave Accessories

2463100	Autoclave Tape	1/roll
2463200	Germicidal Cloth	50/pk
2463300	Contaminated Items Bag	200 bags
2714700	Sterilization Indicators	100/box
2811115	Sterikon® plus Bio indicators	15/pk
2811199	Sterikon® plus Bio indicators	100/pk

Bag, Contaminated Items

Transparent with orange biohazard symbol on bag. For use in handling and in gas or steam sterilizing contaminated items. 30.48 x 35.56 cm (12 x 14"). AMSCO.

Prod. No.	Unit
2463300	200 bags

Bag, Sterile, Whirl-Pak®

Complies with Standard Methods and USEPA for drinking water sample collection. Made from poly resins approved by USDA and FDA for food contact. Sterile (certified), disposable, transparent polyethylene bags with trusted "Whirl-Pak" closure. Suitable for liquid or solid sample collection. "Write-on" surface accepts waterproof ink. 24 oz bag perfect for incubating petri dishes in water bath applications.

Prod. No.	Description	Unit
2233100	Vol: 207 mL (7 oz) Dim (W x L): 9.5 cm x 18 cm (3.75 x 7") 3.0 mil thick	pk/500
2233199	Same as above.	pk/100
2233125	Same as above.	pk/25
1437297	Vol: 720 mL (24 oz) Dim (W x L): 15 cm x 23 cm (6 x 9") 3.0 mL thick	pk/10



Bag, Sterile, Whirl-Pak® with Dechlorinating Agent

Specially designed for chlorinated water samples (Complies with USEPA and Standard Methods criteria). Sterile (certified), disposable, transparent polyethylene bags with trusted "Whirl-Pak" closure. Contains non-nutritive pill with 10 mg sodium thiosulfate (will dechlorinate up to 10 mg/Cl₂ in 100 mL sample). Four ounce and 100 mL fill-lines. "Write-on" strip accepts waterproof ink.

Prod. No.	Description	Unit
2075333	100 mL (4 oz), 4 pk of 25 bags	pk/100
2075325	100 mL (4 oz)	pk/25
2075533	Stand-up Bag	pk/100



Balance, Analytical, ScienTech® — Zeta Series™



ScienTech Zeta Series balances feature a **Patented** unbreakable suspension system based on a direct-loading, electromagnetic cell, which differs dramatically from normal lever-configuration balance designs. The Zeta Analytical Balances deliver 0.1mg readabilities for weights up to 210g. All models feature a capacity tracker which displays the used and unused portions of the weighing range, percent weighing, live animal weighing, parts counting, check weighing (used in process control), GLP/GMP/ISO compatibility, and five units of measure: g (grams), oz (ounces), ozt (troy ounces), dwt (pennyweight), and ct (carats). Tare range of each model is 0 to full capacity. A selectable vibration filter adapts the balance to your working environment, and a stability indicator tells you when the reading is valid. Balances feature 5-year warranty, RS-232 interface and include an analytical windscreen. Calibration is via external weight, not included. Power supply: 100-240V, 50/60Hz.

Prod. No.	Capacity	Unit
2936701	80g	each
2936801	120g	each
2936901	210g	each

Balance, Hanging Pan, Ohaus®

Ohaus Cent-O-Gram: good, general purpose hanging pan balance with 300 gram weighing capacity, sensitive to 0.01 g. Readings are taken from four beams of balance. Smallest increment is 0.01 g. Unit has magnetic-damping, specific gravity stand, and zero adjustment knob. Stainless steel weighing pan with handle and two pouring spouts. Pan diameter: 9.25 cm (3.64"). Depth: 1.3 cm (0.5"). Shipping weight: 2.1 kg (4.8 lb).



Prod. No.	Unit
1476000	each

Balance, Laboratory, ScienTech® — Zeta Series™



ScienTech Zeta Series balances feature a **Patented** unbreakable suspension system based on a direct-loading, electromagnetic cell, which differs dramatically from normal lever-configuration balance designs. The Zeta Laboratory Balance delivers 0.01g readability. Features include a capacity tracker which displays the used and unused portions of the weighing range, percent weighing, live animal weighing, parts counting, check weighing (used in process control),

GLP/GMP/ISO compatibility, and five units of measure: g (grams), oz (ounces), ozt (troy ounces), dwt (pennyweight), and ct (carats). Tare range is 0 to full capacity. A selectable vibration filter adapts the balance to your working environment, and a stability indicator tells you when the reading is valid. Balances feature 5-year warranty and RS-232 interface. Calibration is via external weight, not included. Power supply: 100-240V, 50/60Hz.

Prod. No.	Capacity	Unit
2937201	600g	each

Balance, Moisture Analyzer, Ohaus®

The Ohaus® Moisture Analyzer incorporates state-of-the-art halogen heating with precision weighing technology to quickly, effectively and affordably measure moisture content. Powerful software facilitates ease of use, as well as data storage and management. 45g model displays % moisture, % solids, Time, Weight, Temperature, Test ID and Drying Curve. 35g model displays % Moisture, Time Weight, and Temperature. Both models feature a 2-year manufacturer warranty.



Ideal applications include wastewater treatment, food and beverage, chemical, industrial, farming, construction and research labs.

Visit our website for the full list of features and to download your copy of the Moisture Analyzer brochure.

Capacity	Timer	Temp. Range	Readability
35g	1 -120 min, 30 sec units	50 to 160°, 5°C units	0.005g
45g	1 -120 min, 10 sec units	50 to 200°, 1°C units	0.001g

Prod. No.	Description	Capacity	Unit
2946401	115V, North American Plug	35g	each
2946402	115V, North American Plug	45g	each
2946403	230V, Euro Plug	35g	each
2946404	230V, Euro Plug	45g	each
2946405	240V, UK Plug	35g	each
2946406	240V, UK Plug	45g	each

Moisture Analyzer Accessories

Prod. No.	Description	Unit
2948600	Aluminum Sample Pans	50/box
2507600	Glass Fiber Pads	200/box

Balance, Precision, Acculab® — VICON Series

These balances are ideal for all municipal, industrial or educational applications. External, one-touch calibration with three weight options. A flip-down protective cover means safe transportation/storage and stackability. Features include integrated calibration weights, durable stainless steel pan and a large, back-lit display. Mass unit conversions include g, oz, lbs:oz, dwt, ozt, grains, Newtons, carats.



Prod. No.	Capacity	Readability	Repeatability	Pan Size	Power Source	Unit
2694700	120 g	0.001 g	≤± 0.003 g	diam 97 cm / 3.8"	12 Vac Adapter (Included)	ea
2361000	510 g	0.1 g	≤± 0.1 g	14.2 x 13.0 cm (5.5 x 5")	12 Vac Adapter (Included) or 9 Vdc Battery	ea
2601100	710 g	0.1 g	≤± 0.1 g	14.2 x 13.0 cm (5.5 x 5")	12 Vac Adapter (Included) or 9 Vdc Battery	ea

Balance, Precision, ScienTech® — Zeta Series™

ScienTech Zeta Series balances feature a **Patented** unbreakable suspension system based on a direct-loading, electromagnetic cell, which differs dramatically from normal lever-configuration balance designs. The Zeta Precision Balances deliver 1mg readabilities for weights up to 500g. All models feature a capacity tracker which displays the used and unused portions of the weighing range, percent weighing, live animal weighing, parts counting, check weighing (used in process control), GLP/GMP/ISO compatibility, and five units of measure: g (grams), oz (ounces), ozt (troy ounces), dwt (pennyweight), and ct (carats). Tare range is 0 to full capacity. A selectable vibration filter adapts the balance to your working environment, and a stability indicator tells you when the reading is valid. Balances feature 5-year warranty, RS-232 interface and include an analytical windscreen. Calibration is via external weight, not included. Power supply: 100-240V, 50/60Hz.



Prod. No.	Capacity	Display Range	Unit
2937001	250g	0.001g to 260g	each
2937101	500g	0.001g to 510g	each

Balance, Portable, A&D®

Simple and easy to operate, this rugged field balance features a stability indicator, overload indicator, simple external calibration, large LCD display, auto power off, 2-year warranty, and four units of measure: g, oz, ct and tl. Includes convenient carrying case, stainless steel pan, AC power adaptor and 4 AA batteries. Overall dimensions: 5.1" x 7.6" x 2.0". Weight: 1.1 lb. Pan Size: 5.1" in diameter.



Prod. No.	Capacity	Unit
2946801	200 x 0.1g	each
2946802	2000 x 1.0g	each

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www.hach.com

- Quick and easy access to your account at any time.
- View complete order status and history.
- Maintain your "favorites" list, request quotes, and much more!



Balance, Portable, AccuLab® Pocket-Pro®



Designed for portability, this scale is ideal for remote or "on the go" applications. A unique slide closure locks the weighing pan in place during transport and protects the blue, backlit display. Model displays weights in grams & ounces, and an energy saving mode extends battery life when scale stands idle. A concave platform keeps round or smaller objects in place. Simple 3-key operation and 1-touch calibration makes operation a snap. An audible tone indicates overload, under load and low battery. Requires one "AA" battery (not included). Calibration weight and tray included. Balance measures to 0.1g.

Prod. No.	Description	Capacity	Pan Size	Unit
2796900	Pocket Pro Model 401	400g	7.3 x 6.3 cm 2.9 x 2.5"	each

Balance Weights and Weight Sets

ASTM Class 1 weights made from polished, non-magnetic stainless steel (≥ 50 mg) or aluminum (≤ 30 mg). NIST traceable certificate included. Sets packaged in polypropylene case and come with contoured weight-handling forceps.

Sets

Prod. No.	Description
2617601	100 g - 10 mg Grams: 100-50-20 (2 ea)-10-5-2 (2 ea)-1 Milligrams: 500-200 (2 ea)-100-50-20 (2 ea)-10
2617600	100 g - 1 mg Grams: 100-50-20 (2 ea)-10-5-2 (2 ea)-1 Milligrams: 500-200 (2 ea)-100-50-20 (2 ea)-10-5-2 (2 ea)-1

Individual Weights

Prod. No.	Description
2617614	100 g
2617613	50 g
2617612	10 g
2617611	5 g
2617610	1 g
2617609	100 mg
2617607	10 mg



Barometers

Hach offers a traditional Dial Barometer or a Digital Barometer. Dial Barometer features a large, clear, dual scale in hPa (hecto Pascal) and mm (mercury) on a 4-inch dial, while the Digital Barometer features an altimeter, barometer, temperature, time and weather forecast. Digital model measures 3.8 x 2.6 x 0.7" and comes with Lanyard, case and batteries. Both models feature wall mounts.

Prod. No.	Description	Unit
2694500	Dial Barometer	each
2758400	Digital Barometer	each



Bath, Ultrasonic

Cleans small and medium sized parts, including spectrophotometer cells. Unit comes with heater, timer, and temperature control plus a 2.8 L (0.75-gal) capacity tank. Tank is resistant to most cleaning solutions. Mesh basket sold separately. Dimensions: exterior (L x W x D) 33.8 x 30 x 29.5 cm (13.3 x 12 x 11.6"), interior (L x W x D) 24 x 14 x 10 cm (9.5 x 5.5 x 4").

Prod. No.	Description	Unit
2489500	115 Vac, 60 Hz	each
2489502	230 Vac, 50 Hz	each
2489505	Mesh Basket	each

Beakers, Berzelius, Glass

200 mL Berzelius style (tall form) beakers from Kimax, are the industry standard for a wide variety of lab applications. Graduations are high quality screen printing. Bull nose lip and molded pour spout minimize spillage in liquid transfer. Autoclavable, non-toxic and biologically inert. Volumes and graduations are approximate.



Prod. No.	Capacity	Unit
2276145	200 mL	each
2276175	200 mL	12/pk

Beakers, Glass

Griffin style (low form) beakers are the industry standard for a wide variety of lab applications. Graduations are high quality screen printing. Bull nose lip and molded pour spout minimize spillage in liquid transfer. Autoclavable, non-toxic and biologically inert. Volumes and graduations are approximate.



Prod. No.	Capacity	Unit
50041H	50 mL	each
50071H	50 mL	12/pk
50042H	100 mL	each
50072H	100 mL	12/pk
50044H	150 mL	each
50074	150 mL	12/pk
50046H	250 mL	each
50076H	250 mL	12/pk
50048	400 mL	each
50078	400 mL	12/pk
50052	600 mL	each
50082	600 mL	6/pk
50053	1000 mL	each
50083	1000 mL	6/pk
50054	2000 mL	each
50084	2000 mL	4/pk

Beakers, Polypropylene, Nalgene®

Griffin style (low form) beakers from Nalgene are the industry standard for a wide variety of lab applications. Graduations are high quality screen printing in sizes ≥250mL. Bull nose lip and molded pour spout minimize spillage in liquid transfer. Autoclavable, non-toxic and biologically inert. Volumes and graduations are approximate.



Prod. No.	Capacity	Unit
108030	30 mL	each
108060	30 mL	12/pk
108041	50 mL	each
108071	50 mL	12/pk
108042	100 mL	each
108072	100 mL	12/pk
108044	150 mL	each
108074	150 mL	12/pk
108046	250 mL	each
108076	250 mL	6/pk
108048	400 mL	each
108078	400 mL	6/pk
108052	600 mL	each
108082	600 mL	4/pk
108053	1000 mL	each
108083	1000 mL	3/pk

Beaker, Teflon®

This is the toughest, most durable beaker material commonly available. Unbreakable, it can withstand extreme conditions, including temperatures from -270 to 250°C. Made of nonporous Teflon composition, chemically non-reactive.



Prod. No.	Capacity	Unit
2238244	150 mL	each

Blender — Bottles



Blender, Industrial

This blender is tough enough to handle homogenizing wastewater, sludge, soil or heavy weight food samples for superior analytical results. Both models have thick walled glass containment jars and durable, rust free stainless steel blades.



Bottle, BOD, Disposable

- Fresh bottle, ready for use
- No cleaning required
- Unbreakable and recyclable
- Oxygen will not diffuse in or out of sample
- EPA compliant

Stopper sold separately.

Prod. No.	Description	Unit
2943100	Disposable 300 mL BOD Bottle	117/case
2943900	Unbreakable Acrylic Stopper for 300 mL BOD Bottle	25/pk
190901	Glass Stopper for 300 mL BOD Bottle	each

Prod. No. Description

2616100	Two-speed, 1.2-L container; 120 Vac-50/60 Hz
2616102	Two-speed, 1.2-L container; 240 Vac-50/60 Hz

Options

2616105	Optional stainless steel container
2616106	Optional stainless steel mini-container, 50-250 mL

Bottle, BOD Glass

The standard for BOD analysis. Borosilicate glass bottle with flared lip and ground-glass stopper to prevent air entrapment and for water seal. Frosted marking area. Stopper included (60 and 300 mL sizes). Serialized bottles have silk-screened, sequential numbers and include a bar code.



Prod. No.	Capacity (mL)	Pkg.	Features
190902	60	each	Marked 30 mL graduation line
62100	300	each	Unlabeled
62106		6/pk	
62124		24/pk	
2898700	300	24/pk	Serialized; 1-24
2898800		24/pk	Serialized; 25-48
2898900		24/pk	Serialized; 49-72
2899100		24/pk	Serialized; 73-96
2899200		24/pk	Serialized; 97-120
2086047	300	each	Bottle, Black PVC Coating
2937906	473	6/pk	Amber; replacement for BODTrak® apparatus

Boiling Chips



Carbon boiling chips are chemically inert to concentrated sulfuric acid, strong alkalis, and other chemicals. Carbon chips can be used for atmospheric or vacuum operations. Silicon carbide (carborundum) chips are random-sized pieces up to 2 mm long.

Prod. No.	Description	Unit
1483531	Carbon Boiling Chips	227 g/pk (8 oz)
2055734	Silicon Carbide Boiling Chips	500 g/pk (1.1 lb)

Accessories

Prod. No.	Description	Unit
190901	Stoppers, ground-glass stopper for 60 and 300 mL bottles	each
241906	Snap-Caps, improves integrity of standard water seal	6/pk
2091606	Rubber Leash	6/pk
	Leash fits around stopper and bottle	
68700	BOD bottle cleaning brush	each

Bottle, Dilution



Transparent, Polysulfone bottle is autoclavable, break-resistant, 28mm wide-mouth bottles feature molded-in 90 and 99 mL marks for serial dilutions. Linerless polypropylene cap makes bottles leakproof.

Prod. No.	Description	Unit
2245300	200 mL bottle	12/pk

Bottle, Dispensing (Liquids)

250 mL polyethylene bottle with polypropylene measuring chamber delivers precise volume automatically, eliminating need for repetitive pipetting. One squeeze fills the chamber; another dispenses the desired amount. Easy to disassemble for cleaning and refilling. Each bottle has 250 mL reservoir with choice of 1, 2, or 5 mL measuring chamber.



Prod. No.	Capacity	Unit
2053901	1 mL measuring chamber	each
2053936	2 mL measuring chamber	each
2053905	5 mL measuring chamber	each

Bottle, Drop-Dispensing

Low density polyethylene (LDPE) bottle with polypropylene screw cap. Bottle dispenses one drop at a time with easy, one-handed operation.

Prod. No.	Capacity	Unit
2086269	15 mL (0.5 oz)	12/pk
2086250	30 mL (1.0 oz)	12/pk
2086280	60 mL (2.0 oz)	12/pk
2086273	125 mL (4.2 oz)	12/pk
2086256	250 mL (8.5 oz)	12/pk



Bottle, Drop-Dispensing Assembly



Round polyethylene bottle complete with dropper plug and cap for easy and precise liquid dispensing. Separate glass or plastic dropper available for 59 mL bottle.

Prod. No.	Description	Unit
2938106	15 mL (0.5 oz) Bottle with Cap & Plug	6/pk
2937506	29 mL (1.0 oz) Bottle with Cap & Plug	6/pk
2937606	59 mL (2.0 oz) Bottle with Cap & Plug	6/pk
2318506	Glass Dropper (59 mL Bottle Only)	6/pk
2355237	Plastic Dropper (59 mL Bottle Only)	each

Bottle, Dropper



The Polystop™ Dropper Bottle provides a distinct advantage over other glass dropper bottles. The dropper section easily pulls free for use while the polypropylene stopper remains snugly in the neck of the bottle, which helps prevent chipping the glass dropper section.

Prod. No.	Capacity	Unit
2929901	30 mL (1.0 oz)	each
2929902	60 mL (2.0 oz)	each
2929903	125 mL (4.2 oz)	each

Bottle, Gas Washing

For use in precipitating elements from gas. Used in the Hach Cold Vapor Mercury Apparatus Set (Prod. No. 2674400) to perform Cold Vapor Mercury Concentration Analysis—Hach Method 10065.

Prod. No.	Unit
2662200	each



Bottle, Sampling, Round, LDPE

Low-density polyethylene (LDPE) bottles feature wide-mouth opening for easy filling and leak-proof polypropylene closure. Great choice for grab samples, shipping liquids, soil sampling, and storing dry chemicals.

Prod. No.	Capacity	Unit
2087050	30 mL (1 oz)	12/pk
2087071	60 mL (2 oz)	12/pk
2087073	125 mL (4.2 oz)	12/pk
2087076	250 mL (8.4 oz)	12/pk
2087079	500 mL (16.8 oz)	12/pk
2087083	1000 mL (33.8 oz)	6/pk



Bottle, Sampling, Round, HDPE

High-density polyethylene bottle with wide-mouth (89 mm) opening. Excellent sampling bottle for grab samples, storing dry chemicals, and shipping liquids.

Prod. No.	Capacity	Unit
2087154	2-L (2 qt)	each
2087117	4-L (1 gal)	each



Bottle, Sampling, Square

Transparent polycarbonate bottle with cap features wide mouth (3.8cm/1.48" diameter) opening for easy filling and square design for maximum space efficiency. Autoclavable with molded-in graduations (do not engage threads for autoclave cycle).

Prod. No.	Capacity	Unit
2324333	125 mL (4.2 oz)	6/pk
2324373	125 mL (4.2 oz)	48/pk
2324436	250 mL (8.4 oz)	6/pk
2324476	250 mL (8.4 oz)	48/pk
2324539	500 mL (16.8 oz)	4/pk
2324579	500 mL (16.8 oz)	24/pk
2324663	1000 mL (33.8 oz)	4/pk





Bottle, Sampling, Square, Sterile

Transparent, sterile polycarbonate bottle with cap features wide mouth (3.8cm/1.48" diameter) opening for easy filling and square design for maximum space efficiency. Designed for non-acidified samples (drinking water, waste water) with molded-in graduations.

Prod. No.	Capacity	Unit
2324043	125 mL (4.2 oz)	each
2324073	125 mL (4.2 oz)	48/pk
2324146	250 mL (8.4 oz)	each
2324176	250 mL (8.4 oz)	48/pk
2324253	1000 mL (33.8 oz)	each
2324283	1000 mL (33.8 oz)	24/pk



Bottle, Spray

A gentle squeeze produces a fine spray. Bottle should be filled 3/4 full leaving adequate air space to generate the spray. The spray bottle can also be used as a dropper bottle by simply removing the tube.

Prod. No.	Capacity	Unit
2929701	30 mL (1.0 oz)	12/pk
2929702	60 mL (2.0 oz)	12/pk



Bottle, Spray, Pump

Just a press of the plunger releases a fine mist spray. Available in two sizes.

Prod. No.	Capacity	Unit
2929801	250 mL (8.5 oz)	12/pk
2929802	500 mL (16.8 oz)	12/pk



Bottle, Storage, Amber, Glass

Amber glass protects contents from damaging effect of sunlight. Includes polypropylene cap for closure.

Prod. No.	Capacity	Unit
2937706	118 mL (4 oz)	6/pk
2937806	237 mL (8 oz)	6/pk
2937906	437 mL (16 oz)	6/pk
2938006	1-L (33.8 oz)	6/pk



Bottle, Storage, Amber, Glass, Wide-Mouth

Protects contents from damaging effects of sunlight. Referenced in a variety of Standard Method water analysis procedures.

Prod. No.	Capacity	Unit
2951401	1-L	each

Bottle, Storage, Amber, Polyethylene

High-density polyethylene bottle with leak-proof polypropylene cap. Ideal for storage of light sensitive materials, solid or liquid.

Prod. No.	Capacity	Unit
2085844	125 mL (4.2 oz)	6/pk
2085856	250 mL (8.5 oz)	6/pk
2085859	500 mL (16.8 oz)	6/pk
2085863	1-L (33.8 oz)	3/pk



Bottle, Storage, Autoclavable

Polyethylene bottles suitable for sample collection to chemical storage. Matched polypropylene caps have a valve-seal design for a perfect, leakproof fit. A protruding ring under the cap holds shrink-wrapping securely in place. Autoclavable 121°C (Do not autoclave with caps in place). Available in Narrow Mouth or Wide Mouth.



Prod. No.	Description	Unit
2939001	30 mL (1 oz) Narrow Mouth	12/pk
2939002	60 mL (2 oz) Narrow Mouth	12/pk
2939003	125 mL (4.2 oz) Narrow Mouth	12/pk
2939004	250 mL (8.5 oz) Narrow Mouth	12/pk
2939005	500 mL (16.8 oz) Narrow Mouth	12/pk
2939006	1-L (33.8 oz) Narrow Mouth	6/pk
2939101	30 mL (1 oz) Wide Mouth	12/pk
2939103	125 mL (4.2 oz) Wide Mouth	12/pk
1472456	250 mL (8.5 oz) Wide Mouth	12/pk
1472459	500 mL (16.8 oz) Wide Mouth	12/pk
1472463	1-L (33.8 oz) Wide Mouth	6/pk

Bottle, Storage, Cylindrical

High-density polyethylene (HDPE) round bottle offers the best value for storing liquids and dry samples.

Prod. No.	Description	Unit
2511300	500 mL (16.8 oz)	6/pk
2511400	1000 mL (33.8 oz)	6/pk



Bottle, Storage, Oblong

Capacity: 118 mL. Polyethylene oblong storage bottle with cap. Optional Child-Resistant cap and Glass Dropper sold separately.



Prod. No.	Description	Unit
2937406	118 mL (4 oz) Bottle with cap	6/pk
2323006	Child-Resistant cap	6/pk
2318506	Glass Dropper	6/pk

Bottle, Storage, Reagent

Narrow mouth, glass with ground neck and glass stopper.

Prod. No.	Capacity	Unit
1477143	125 mL (4.2 oz)	each
1477146	250 mL (8.5 oz)	each
1477149	500 mL (16.8 oz)	each
1477153	1000 mL (33.8 oz)	each



Bottle, Storage, Rectangular

Heavy-walled, high-density polyethylene (HDPE) bottle features wide mouth for easy filling and leak-proof polypropylene cap. Rectangular shape for maximum space efficiency and less damage in shipping. Suitable for both aqueous solutions and solid samples. Amber color bottle decreases photodegradation by sunlight.



Prod. No.	Capacity	Type	Unit
2086773	125 mL (4.2 oz)	Translucent	12/pk
2086776	250 mL (8.5 oz)	Translucent	12/pk
2086779	500 mL (16.8 oz)	Translucent	12/pk
2086783	1000 mL (33.8 oz)	Translucent	6/pk
2086784	2000 mL (67.6 oz)	Translucent	4/pk
2085944	125 mL (4.2 oz)	Amber	6/pk
2085956	250 mL (8.4 oz)	Amber	6/pk
2085959	500 mL (16.9 oz)	Amber	6/pk
2085953	1000 mL (33.8 oz)	Amber	each
2085954	2000 mL (67.6 oz)	Amber	each

Bottle, Storage, Round

Low-density polyethylene (LDPE) round bottle for storing liquids and dry samples.

Prod. No.	Description	Unit
2511500	237 mL (8 oz)	6/pk
2511600	473 mL (16 oz)	6/pk



Bottle, Storage, Square

High-density polyethylene bottle with leak-proof polypropylene cap. Square design saves space, while wide-mouth allows for easy fill and removal of contents.

Prod. No.	Capacity	Unit
2086871	60 mL (2 oz)	12/pk
2086874	175 mL (6 oz)	12/pk
2086876	250 mL (8.5 oz)	12/pk
2086879	500 mL (16.8 oz)	12/pk
2086883	1000 mL (33.8 oz)	6/pk



Bottle, Storage, Teflon®

Superior chemical and temperature resistance in this round Teflon bottle with Tefzel® ETFE cap. Excellent for Trace Metal Analysis and other applications using organic solvents. Fully autoclavable with leak-proof cap (do not engage threads during cycle). Temperature range of -105 to 150°C.

Prod. No.	Capacity	Unit
2704949	500 mL (16.8 oz)	each



Bottle, Storage, Write-On



Large dedicated labeling areas help to standardize the way bottle contents are identified. A separate area is provided for name and a larger area allows for detail of contents or safety information and includes a defined space for date information. Bottles are molded of rugged HDPE in 500 and 1000 mL sizes and are available as narrow or wide mouth with leak proof polypropylene cap.

Prod. No.	Description	Unit
2930001	500 mL (16.8 oz) Narrow Mouth	12/bag
2930002	1000 mL (33.8 oz) Narrow Mouth	6/bag
2930003	500 mL (16.8 oz) Wide Mouth	12/bag
2930004	1000 mL (33.8 oz) Wide Mouth	6/bag

Bottle, Wash

Polyethylene bottle with polypropylene closure and stem molded in one piece for leak-proof service. Tip can be cut back to increase flow. Available in Narrow or Wide Mouth.



Prod. No.	Description	Unit
2930101	125 mL (4.2 oz) Narrow Mouth	12/bag
2930102	250 mL (8.4 oz) Narrow Mouth	12/bag
2930103	500 mL (16.8 oz) Narrow Mouth	12/bag
2930104	1000 mL (33.8 oz) Narrow Mouth	12/bag
2927201	125 mL (4.2 oz) Wide Mouth	12/bag
2927202	250 mL (8.4 oz) Wide Mouth	12/bag
2927203	500 mL (16.8 oz) Wide Mouth	6/bag
2927204	1000 mL (33.8 oz) Wide Mouth	3/bag

Bottle, Wash, Nalgene®



Narrow mouth polypropylene screw closure and stem feature one-piece construction to ensure a leak proof seal. Tip can be cut back to increase flow. 500mL (16.8 oz. Capacity, 28mm mouth). Choose from 4 cap/stem colors.

Prod. No.	Description	Unit
2928201	Nalgene LDPE Bottle, Yellow Cap/Stem	6/pk
2928202	Nalgene LDPE Bottle, Blue Cap/Stem	6/pk
2928203	Nalgene LDPE Bottle, Green Cap/Stem	6/pk
2928204	Nalgene LDPE Bottle, Red Cap/Stem	6/pk

Bottles — Brushes



Bottle, Wash, Red

Color indicates flammable or dangerous contents. Bottle is polyethylene with polypropylene screw cap.

Prod. No.	Description	Unit
2929101	250 mL (8.4 oz) Narrow Mouth	6/bag
2929102	500 mL (16.8 oz) Narrow Mouth	6/bag
2929103	500 mL (16.8 oz) Wide Mouth	4/bag



Bottle, Wash, Red

Color indicates flammable or dangerous contents. Bottle is polyethylene with polypropylene screw cap. Delivery tube through the shoulder for complete dispensing.

Prod. No.	Capacity	Unit
2086946	250 mL (8.4 oz)	each
2086949	500 mL (16.8 oz)	each



Bottle, Wash, Symbol Alert

Wide-mouthed and color-coded wash bottles provide safe and positive identification of common laboratory solutions. Standard Diamond Alert symbols indicate type of hazard contents may represent. Polyethylene bottles with color-coded polypropylene screw caps and spray-tip assembly. Variety 6-pack includes one bottle each for water, acetone, methanol, isopropanol, toluene, and ethanol.

Prod. No.	Capacity	Unit
2613049	500 mL (16.8 oz)	6/pk

Bottle, Wash, Wide-Mouth

Low-density polyethylene bottle with polypropylene screw closure features tubulation molded into bottle to eliminate any possibility of leakage. Entire contents can be dispensed without tipping or shaking.

Prod. No.	Capacity	Unit
62014	125 mL (4.2 oz)	each
62031	250 mL (8.4 oz)	each
62011	500 mL (16.8 oz)	each
62075	750 mL (24 oz)	each
62016	1000 mL (33.8 oz)	each



Bottle Carrier, Nalgene®

Linear, low-density polyethylene. Securely holds up to six standard 0.5 L glass bottles, pint-size reagent bottles, and most other 500 mL glass or plastic bottles—making breakage almost impossible. Lightweight, chemical-resistant, and easy to clean. Dimensions: 34.9 x 24.8 x 27.6 cm (14 x 10 x 11").

Prod. No.
2094300



Bottle Carrier, Thick, Molded LDPE

Thick, molded LDPE cushions glass bottles. Used to transport bottles of acids, alkalis, or solvents safely. Carries 1 gal, 4 L or 5 pt bottles. Epoxy-coated handle provides secure grip.

Prod. No.
2239200



Brush, BOD Bottle



Brush part 13 cm (5") length, 5 cm (2") diameter. Total length: 33 cm (13"). Heavily filled with black bristles on galvanized wire. Radial tufted end.

Prod. No.
68700

Brush, Bottle

The pivot head on this brush swivels, enabling you to thoroughly clean bottles and flasks, including difficult curves and corners. Natural bristles set in wood will not scratch glass. Uniquely designed head fits through a 29/26 standard taper neck or any neck with a diameter of 24mm (1") or more. The brush has a 45mm (1 1/4") wooden back and a 33cm (13") long hardwood handle.

Prod. No.
2929601



Brush, Buret



Ideally shaped for quick and thorough cleaning of burets and other similarly shaped vessels. Unbleached white nylon bristles are supported by twisted galvanized steel wire. Brush portion measures 8 cm (3.1") in length. Fan style tip.

Prod. No.	Description	Brush Diameter	Total Length	Unit
68500	25 mL Buret Brush	1.3cm (0.5")	76cm (30")	each
68600	50 mL Buret Brush	2.0cm (0.79")	91cm (35.8")	each

Brush, Camel's Hair

For cleaning delicate instruments or to ensure complete transfer of samples when weighing. Soft, brown hair is cemented into a metal holder. Hairs are cut to the same length—14 mm (0.5"). Can be attached to Micro Spatula, Prod. No. 1225600.

Prod. No.
2103200



Brush, General Purpose



Ideal for general cleanup and minor spills of dry materials, brush features an ergonomically molded polymer handle with soft polymer bristles. Use on countertops, lab benches, tile floors and more.

Prod. No.
2241400

Brush, Imhoff Cone



Brush part 25 cm (10") length, 10 cm (4") diameter tapering to 2 cm (0.79"). Wooden handle. Length: 38 cm (15"). Fan-style tip, perfect for cleaning your Imhoff Cone.

Prod. No.
68800

Brush, Pipet



Brush part, 15 cm (6"); 2 cm (0.79") diameter tapering to 0.6 cm (0.24"). Total length of brush: 44 cm (17.3"). Soft gray hair on galvanized wire.

Prod. No.
68900

Brush, Semi-Micro



Brush part, 7 cm (2.8") length; 1.3 cm (0.5") diameter. Total length: 14 cm (5.5"). Black bristles, galvanized wire. Fan-style tip.

Prod. No.
69100

Brush, Test Tube



Brush part, 9 cm (3.5") length; 2 cm (0.79") diameter. Total length: 24 cm (9.5"). Unbleached white bristles on galvanized wire. Radial tufted end.

Prod. No.
69000

Bucket, Graduated

White high-density polyethylene. Handle and wide-lipped pour-spout. Liter and pint graduations.



Prod. No.	Description
2087300	10 L (20 pt) capacity

Buret, Acrylic



Durable, crystal-clear acrylic body is individually calibrated to meet the accuracy requirements of ASTM E287. Leak-proof stopcock with self-lubricating Teflon® TFE plug. Excellent for general lab or field use in schools, industrial, municipal or food applications. Unaffected by dilute mineral acids and bases (except hydrofluoric acid and ammonium hydroxide). Can contain liquids within a pH range of 1-14 and up to 5% wt/wt of acids or 30% bases can be used. Not designed for exposure to alcohol or organic solvents.

Prod. No.	Capacity (Graduations)	Tolerance	Unit
1405940	25 mL (0.10 mL)	25 mL (0.10 mL) ±0.06 mL	each
1405941	50 mL (0.1 mL)	25 mL (0.10 mL) ±0.1 mL	each
1405942	100 mL (0.2 mL)	25 mL (0.10 mL) ±0.2 mL	each

Burets — Carboy



Buret, Automatic, Glass

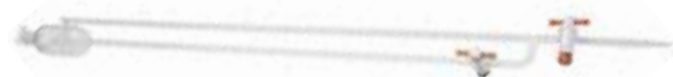
Glass reservoir and buret with PTFE stopcock create an easy to use workstation for standard solutions. Subdivisions of 1.0 mL and 0.1 mL.

Prod. No.	Buret Capacity	Reservoir Capacity	Unit
2261438	10 mL	500 mL	each
2261440	25 mL	1000 mL	each

Replacement Components

Prod. No.	Description	Unit
2261432	10 mL buret	each
2261442	25 mL buret	each
50444	Glass "T" for Buret	each
50445	Bulb and connecting tube	each
50450	2-hole stopper for 500 mL flask	each
50449	2-hole stopper for 1000 mL flask	each
2261451	PTFE Stopcock	each
2489449	500 mL flask	each
2489453	1000 mL flask	each

Buret, Automatic, Class A



Calibrated to ASTM E694 standard. NIST traceable, Class A buret with 70 mL reservoir. 5.0 mL buret capacity with 0.1 mL subdivision (tolerance ± 0.01 mL). Reservoir stopper and #2 PTFE stopcocks included.

Prod. No.	Description	Unit
2055037	5 mL Automatic Buret	each
2095661	Replacement PTFE Stopcock	each

Buret, Automatic, Self-Zeroing

Durable, crystal-clear acrylic buret is calibrated to meet ASTM E287 requirements. Leak-proof stopcock with self-lubricating Teflon® TFE plug. Unaffected by dilute mineral acids and bases (except hydrofluoric acid and ammonium hydroxide). Handles liquids with a pH range of 1-14 and up to 5% wt/wt of acids or 30% bases can be used. Not designed for exposure to alcohol or organic solvents. Includes low-density polyethylene squeeze bottle and 36" tubing for easy self-zeroing set up for titration work stations. Dust cover included.



Prod. No.	Buret Capacity (mL)	Subdivisions (mL)	Reservoir Capacity (mL)	Unit
2087640	25	0.1	500	each
2087641	50	0.1	1000	each
2087642	100	0.2	1000	each

Clamp and stand not included.

See page 371 for stand and page 332 for clamp.

Buret, Glass, Class A



Glass, funnel-fill buret. Certified Class A (ASTM Specification E287) with permanent serial number and certificate for NIST traceability. PTFE stopcock does not require grease. Dust cap included. 10 mL buret meets requirements for potentiometric titrations (ASTM D664).

Prod. No.	Capacity (mL)	Subdivisions (mL)	Tolerance (mL)	Approx. Length (cm)	Unit
2636538	10	0.05	0.02	66.4	each
2636540	25	0.10	0.03	61.4	each
2636541	50	0.10	0.05	74.5	each
2636542	100	0.20	0.10	79.1	each
2095661	Replacement Stopcock (Fits all models)				each



Buret Kit, Self-Zeroing

Economical kit turns any 25 or 50 mL buret into an auto-filling, self-zeroing titration work station. Can be used with most aqueous titrants. Kit includes 1000 mL low-density polyethylene reservoir, 48" of tubing, connectors, reservoir tubing and extra closure without tubing hole for storing titrants or carrying to the field.

Prod. No.	Unit
2073900	each

Burner, Alcohol

Borosilicate glass. With glass cap.



Prod. No.	Description	Unit
2087742	Burner, 100 mL (4 oz), 83 x 94 mm (DH)	each
2097810	Replacement wicks, 10/pk	each
1445949	Isopropyl Alcohol, 500 mL (pt)	each

Burner, Bunsen

Die-cast zinc alloy, with serrated gas inlet connections. Adjustable, with fine pitch threaded needle valve and flame stabilizer. Overall height: 15.6 cm (6.1"). Specifically for use with cylinder (L.P.) gas.

Prod. No.	Unit
2162700	each



Carboy, Cylindrical

Low-density polyethylene with a leak-proof polypropylene screw closure. Molded in spigot provides strength and leak-proof operation. 10 L and 20 L sizes have wide shoulder handles.



Prod. No.	Description	Unit
1486817	4 L capacity	each
1486858	10 L capacity	each
1486860	20 L capacity	each
2182700	Replacement spigot	each

Carboy, Lowboy



Made of high-density polyethylene. Low-profile design fits into narrow spaces, on shelves, and in refrigerators. Stacks up to three high to save space. Large, integral, hand grip makes carrying easy. 8 L size can be stacked on 15 L size. For storage and dispensing of reagents, distilled water, titrants, and other liquid storage needs. Will tolerate strong acids and bases, alcohols, and ketones. Not recommended for use with other organic solvents. Leak-proof. Includes spigot.

Prod. No.	Capacity	Dimensions	Unit
2075408	8 L (2 gal)	16.3 x 36.3 x 30 cm (6.4 x 14.3 x 11.8")	each
2075460	15 L (4 gal)	20.1 x 36.8 x 36.5 cm (7.9 x 14.5 x 14.4")	each



Carboy, Rectangular

Space-saving rectangular shape. With molded graduations. High-density polyethylene ensures tough, rigid carboy. 20 L (5 gal) size has molded-in hand grips. Quick action spigot gives easy fluid control; incorporates two Teflon o-rings for positive seal.

Prod. No.	Capacity	Dimensions	Unit
2098061	9 L (2.38 gal)	22 x 15 x 34 cm (8.7 x 5.9 x 13.4")	each
2098080	20 L (5.28 gal)	32 x 22 x 38 cm (12.6 x 8.7 x 14.9")	each
55919	Tubing, for carboy, 10 feet		each
2182700	Replacement Spigot		each

Carboy, Round

Low-density polyethylene with polypropylene screw closure. Large size has wide shoulder handles for easy carrying. Tubing adapter molded in one piece with bottle. Leak-proof.

Prod. No.	Capacity	Unit
2052771	2 L	each
2052761	20 L	each



Carrier Tray

Steam autoclavable, polypropylene molded tray has built-in handle for easy carrying of reagents or laboratory ware using one hand.



Prod. No.	Description	Unit
2938300	14.9 x 9.4 x 4.5"	each

Casserole

With lip and flat porcelain handle, glazed inside and out except for rim.



Prod. No.	Capacity	Diameter x H	Unit
62762	140 mL	8.5 x 4.5 cm (3.4 x 1.8")	each
62763	210 mL	9.5 x 5 cm (3.7 x 1.9")	each



Centrifuge

Versatile benchtop unit for sample preparation such as settleometer test. Stainless-steel motor shaft and permanently lubricated ball bearings provide long, trouble-free service life. Centrifuge accepts tubes with dimensions of 13 to 17mm diameter x 100 to 133mm long.

Capacity	Speed	Timing	Rotor
6 Tubes x 15 mL	3300 rpm / 1380 xG (15 sec top speed)	0 – 15 min (30 sec resolution)	Six-Place (fixed angle)

Prod. No.	Description	Unit
2676500	115 Vac, 60 Hz 2.1 A	each
2676502	230 Vac, 50 Hz 1.05 A	each

Centrifuge Tubes

Prod. No.	Description	Unit
2278739	Polycarbonate, Round Bottom, 15 mL Tube	10/pk
2585220	Friction-fit, Cap for Round Bottom Tube	10/pk
2115839	Polycarbonate, Conical Bottom, 15 mL Tube	10/pk
2604020	Friction-fit, Cap for Conical Bottom	20/pk



Clamp, Double Buret

Linear polyethylene. Non-corrosive clamp holds buret firmly in place without obscuring graduations. Center clamp tightens to a standard support rod. Includes 1.25 cm (0.5") and 0.95 cm (0.4") bushings.

Prod. No.	Description
2087801	Double Buret Clamp

Unit
each

Clamp, Double Buret

Holds two burets from micro-size to 100 mL separately without slippage or obscured graduation lines and numbers. Built-in meniscus reader. Overall size, 24 x 13 cm (9.5 x 5.2") (W x L).

Prod. No.
32800



Clamp, Day Pinchcock

Nickel-plated, steel wire can be used on tubing up to 10 mm (0.39") O.D. Length, 6.7 cm (2.6").

Prod. No.	Unit
68206	6/pk



Clamp, Pinch

Clamp for ground glass ball joints.

Prod. No.	Description
1433800	No. 28



Clamp, Rod and Pipe

For rods or pipes between 1.1 and 2.2 cm (0.43 to 0.87") diameter in any type of right-angle clamp setup (horizontal or vertical). Comes with two 45° angle ribbed thumb screws. Not recommended for use with supporting ring stands.

Prod. No.	Unit
32600	each



Clamp, Screw Compression

Nickel-plated brass.
For rubber and plastic tubing.



Prod. No.	Description
63317	1.3 x 1.9 cm (0.5 x 0.75")
63301	1.6 x 2.5 cm (0.63 x 0.98")

Unit
each

Clamp, Test Tube



Self-closing. Brass wire. For tubes up to 2.5 cm in diameter.

Prod. No.	Unit
63400	each

Clamp, Three-Prong

Vinyl-covered jaws operate independently of solid aluminum extension rod, 1.1-cm (0.43") diameter. Jaw capacity: 8.9 cm (3.5"). Brass pivot pin. Total length: 27.9 cm (10.9").



Prod. No.	Unit
42200	each

Clamp, Tubing

Molded, white polycarbonate. Autoclavable. Will not distort, rust or corrode. Mini-clamp is a single position on/off clamp for use with thin-walled tubing under 4.7 mm (3/16") O.D. Larger clamp has 15 positions, stepped control to throttle flow from full open to complete closure. Fits tubing from 3.2 mm (1/8") to 11 mm (3/8") O.D.



Prod. No.	Description
2087900	Mini-clamp, 100/pk
2087901	Large Clamp, 12/pk

Unit
each

Clamp, Two-Prong



Flat, vinyl-covered jaws hold firmly at any angle. One jaw is fixed; the other opens against a stainless steel compression spring. Clamps are nickel-plated zinc with seamless brass extension tube, compressing screw, and pivot pin. Jaw capacity: 3.8 cm (1.5"). Total length: 20 cm (7.8").

Prod. No.	Unit
2114500	each

Clamp, Two-Prong Swivel

Perfect for cylinder shaped glassware. Swivel feature allows for complete circular adjustments. Clamp complete with both slip-on vinyl and fiberglass grip sleeves. Length 5 - 7/16" (138 mm). Open diameter is 3" (77 mm).



Prod. No.	Unit
2503400	each

Cleaning Reagent — Condenser

Cleaning Reagent for Glass

Premeasured packet of chemical to add to concentrated sulfuric acid. Resulting metal-free cleaning solution removes stains, deposits, and silicones from glassware. Substitute for dichromate. Safety cap for NoChromix-acid mixture safely vents vapor-pressure build-up. May be used directly on 4-kg (8.8 lb) size reagent bottle (such as Prod. No. 97909).



Prod. No.	Description
2088300	Box of 10 packets
2279100	Safety Cap

Clippers, Heavy Duty



A powerful little clipper that can cut both large and small pillows. Gives a clean, even cut on pillows with diameters as large as 1.3 cm (0.5").

Prod. No.	Description
2065800	Clippers
2065801	Replacement blades

Clippers, Shears

Stainless steel, 2.8 cm (1.10"), autoclavable.

Prod. No.	Unit
2369400	each



Clock, Water Resistant

Quartz crystal movement in a sealed water and dust-resistant case ensures accuracy and reliability, even in conditions of 100% humidity such as in factories, greenhouses, outdoors, or in the lab. Contemporary face features bright red second hand and is 7" in diameter. Weight: 3.8 oz. Powered by one AA battery (included).

Prod. No.	Unit
2694600	each



Colony Counter, Hand-Held

For repetitive counting tasks, the Lux Scientific Manostat® Colony Counter virtually eliminates errors. In one step, this colony counter gives a beep and registers a cumulative count on a four-digit LCD display. A switch selects up or down counting modes for counts and count checks. Designed for single-handed operation, the counter is only 15-cm long and weighs less than 28 g (1 oz). The counter is supplied with a 3 V battery and two long-life replaceable felt tip pens. The pens use water- and oil-resistant red and black ink. Ethyl alcohol removes the marks from petri dishes and can be used to surface sterilize the casing for in-hood use.



Prod. No.	Description	Unit
2613200	Colony Counter	each
2613212	Replacement Pen, black	each
2613213	Replacement Pen, red	each
2613211	3 V Battery	each

Colony Counter, Quebec

For counting bacterial colonies. Features: 11.5 cm (4.5") lens with 1.5X magnification to eliminate parallax errors; 40-watt tungsten bulbs to illuminate dark backgrounds; Wolffhuegel guide plate and 3-wire cord. Accommodates Stewart plates. Sheet metal case. Dimensions: 25 x 28 x 27 cm (10 x 11 x 10.5"). CSA certified.



Prod. No.	Description	Unit
2252100	110 Vac, 60 Hz	each
2252102	220 Vac, 50 Hz	each

Condenser Flask, Erlenmeyer

Narrow mouth, joint, graduated. Durable white scale for approximate volumes.

Prod. No.	Capacity	Unit
180743	125 mL	each
180749	500	each



Condenser Flask Accessories



West-type, 24/40 ground-glass, tapered joint, 30 cm (11.8") jacket inner tube seated to jacket. Sloping portion of inlet formed to prevent condensate entrapment.

Prod. No.	Unit
180600	each

Condenser — Cubitainer



Condenser Flask, Erlenmeyer with Socket Joint

Condenser Flask used in Standard Methods oil and grease procedure method number 5520B. 125 mL capacity

Prod. No.	Capacity	Unit
1434000	125 mL	each

Condenser for Condenser Flask

West-type, 28/15 joints, 20 cm (7.9") jacket. Socket at top and ball on bottom.

Prod. No.	Unit
1433700	each

Condenser Adapter for Condenser

Gas inlet tube, vacuum connection 28/15 ground-glass ball joint for use with condenser.

Prod. No.	Unit
1433900	each

Cones, Imhoff Settling

Fully graduated cones for determination of small amounts of settleable matter in sewage by Imhoff Sedimentation Method. Glass cone features reinforced tip for ruggedness, while the Polycarbonate cone features a leak-proof, removable closure for withdrawal of sediment for analysis. Support ring, support stand, and cone holders available and sold separately.



Prod. No.	Description	Unit
57100	1-L Glass Imhoff Cone	each
206700	1-L Polycarbonate Imhoff Cone	each

Support Options and Accessories

206800	2 Cone Polyethylene Holder	each
57200	3 Cone Metal Holder	each
206801	4 Cone Metal Holder	each
58001	Ring Support (92mm I.D.)	each
32900	Support Stand	each
68800	Imhoff Cone Cleaning Brush	each

Conductivity Tester



EC Testr Low. Push button calibration, high $\pm 1\%$ full scale accuracy. Certifiable to IP67, waterproof and dustproof housing that floats. Replaceable sensor that lets you reuse same meter body, saving you money. Hold-Function, Auto-off. Automatic Temperature Compensation.

Prod. No.	Range	Resolution
2845500	0-1990 μS	10 μS
2845600	0-19.90 mS	0.10 mS
2845900	Replacement sensor for EC Testrs	
2307542	Calibration Solution, NaCl, 100mL $\sim 1000/\mu\text{S}$	

Cotton Balls

For use in a variety of laboratory applications.



Prod. No.	Description	Unit
257201	Ultra absorbent cotton balls	100/pk

Crucible, Gooch

Perforated bottom, glazed inside and out except for outside bottom surface. Filter for Gooch Crucible available and sold separately.

25-mL Gooch Crucible is recommended for use in **Standard Methods 2540 C and 2540 D** to determine Total Suspended Solids.



Prod. No.	Capacity	Top O.D.	Bottom O.D.
2098640	25 mL	36 mm	22 mm

Crucible Holder

Rubber with glass stem ground at 45° angle. Holds 25 mL Gooch Crucible. Fits filter flasks that take stopper sizes 6-8.

Prod. No.	Unit
2233200	each

Glass Fiber Filter Disk for Gooch Crucible

Prod. No.	Diameter	Pore Size	Unit
2198720	25 mm	1.5 μm	100/pk

Cubitainer, 20 Liter

- Self-collapsing design
- Meets DOT and FDA requirements
- Secure container design



Prod. No.	Description	Unit
2938500	20-Liter (5 gal.) Cubitainer with Spigot	each

Cylinder, Graduated, Glass

Calibrated "to deliver" glass cylinder. Single metric scale in durable white markings. Bumper guards included for all sizes ≥ 25 mL.



Prod. No.	Capacity	Subdivisions	Tolerance	Unit
50837	5 mL	0.1 mL	± 0.1 mL	each
50838	10 mL	0.2 mL	± 0.2 mL	each
50840	25 mL	0.5 mL	± 0.3 mL	each
50841	50 mL	1.0 mL	± 0.4 mL	each
50842	100 mL	1.0 mL	± 0.6 mL	each
50846	250 mL	2.0 mL	± 1.4 mL	each
50849	500 mL	5.0 mL	± 2.6 mL	each
50853	1000 mL	10.0 mL	± 5.0 mL	each

Cylinder, Graduated, Glass Double Metric, Low Form

These graduated cylinders feature two sets of graduations for reading either up or down, and two pouring lips. Calibrated "to deliver".



Prod. No.	Capacity	Height	Subdivisions	Tolerance
2928401	50 mL	145 mm	1 mL	± 1.5 mL
2928402	100 mL	150 mm	2 mL	± 1 mL

Cylinder, Graduated, Glass Double Metric, Tall Form

These glass Pyrex® graduated cylinders feature two sets of graduations for reading either up or down. Calibrated "to deliver".



Prod. No.	Capacity	Height	Subdivisions	Tolerance
2928301	50 mL	225 mm	1 mL	± 0.5 mL
2928302	100 mL	254 mm	1 mL	± 1 mL
2928303	250 mL	340 mm	2 mL	± 2 mL
2928304	500 mL	390 mm	5 mL	± 4 mL
2928305	1000 mL	465 mm	10 mL	± 6 mL
2928306	2000 mL	520 mm	20 mL	± 12 mL

Cylinder, Graduated, Glass with Red Background, Low-Form

Tuttle-type glass cylinder calibrated "to deliver". Features two pour spouts and a single white metric scale.



Prod. No.	Capacity	Subdivisions	Tolerance	Unit
2064341	50 mL	1.0 mL	± 1.0 mL	each
2064342	100 mL	2.0 mL	± 2.0 mL	each

Cylinder, Graduated, Glass with Red Background, Tall-Form

Calibrated "to contain". Single white metric scale on red background for easy viewing. Bumper guards included for all sizes ≥ 100 mL.



Prod. No.	Capacity	Subdivisions	Tolerance	Unit
2088538	10 mL	0.2 mL	± 0.1 mL	each
2088542	100 mL	1.0 mL	± 0.6 mL	each
2088549	500 mL	5.0 mL	± 2.6 mL	each
2088553	1000 mL	10.0 mL	± 5.0 mL	each

Cylinder, Graduated, Glass, Class A

Certified Class A, this glass cylinder is calibrated "to deliver" according to ASTM E542 & E1272. Serialized and traceable to NIST standards (includes Certificate of Identification and Capacity). Single metric scale in white marking with funnel-top. Bumper guard included for all sizes ≥ 25 mL.



Prod. No.	Capacity	Subdivisions	Tolerance	Unit
2636238	10 mL	0.1 mL	± 0.09 mL	each
2636240	25 mL	0.2 mL	± 0.17 mL	each
2636241	50 mL	1.0 mL	± 0.25 mL	each
2636242	100 mL	1.0 mL	± 0.40 mL	each
2636246	250 mL	2.0 mL	± 0.80 mL	each
2636249	500 mL	5.0 mL	± 1.30 mL	each
2636253	1000 mL	10.0 mL	± 2.50 mL	each



Cylinder, Graduated, Polycarbonate

Clear polycarbonate cylinder is autoclavable and withstands temperatures to 138°C (280°F). Features easy to read graduations in durable fused ink.

Prod. No.	Capacity	Subdivisions	Unit
2117940	25 mL	0.5 mL	each
2117941	50 mL	0.5 mL	each
2117942	100 mL	1.0 mL	each
2117946	250 mL	2.0 mL	each
2117949	500 mL	5.0 mL	each
2117953	1000 mL	10.0 mL	each



Cylinder, Graduated, Polymethylpentene

This cylinder features transparent, nontoxic, noncontaminating, and biologically inert material with excellent chemical resistance. Meets ASTM E1272 Class B accuracy requirements, ISO Standard 6706, and suitable for food and beverage use (PMP resin meets requirements of CFR 21, Part 177.1520). Calibrated "To Contain/To Deliver" at 20°C (68°F). Shatterproof and thermally resistant to 135°C (275°F). Absence of meniscus for easy-to-read levels on front-to-back raised graduations.

Prod. No.	Capacity	Subdivisions	Tolerance	Unit
217238	10 mL	0.2 mL	±0.20 mL	each
217240	25 mL	0.5 mL	±0.34 mL	each
217241	50 mL	1.0 mL	±0.50 mL	each
217242	100 mL	1.0 mL	±1.0 mL	each
217246	250 mL	2.0 mL	±2.0 mL	each
217249	500 mL	5.0 mL	±4.0 mL	each
217253	1000 mL	10.0 mL	±6.00 mL	each



Cylinder, Graduated, Polypropylene

Polypropylene construction of both cylinder and base. All sizes have generous pour spout, large molded-in, and easy-to-read graduations. Can be chemically sterilized without affecting accuracy. Autoclavable, but accuracy will be adversely affected. Cylinders meet accuracy requirements of ASTM Class B, E1272, ISO Standard 6706, and CFR 21, Part 177.1520

Prod. No.	Capacity	Subdivisions	Tolerance	Unit
108138	10 mL	0.2 mL	±0.20 mL	each
108140	25 mL	0.5 mL	±0.34 mL	each
108141	50 mL	1.0 mL	±0.50 mL	each
108142	100 mL	1.0 mL	±1.0 mL	each
108146	250 mL	2.0 mL	±2.0 mL	each
108149	500 mL	5.0 mL	±4.0 mL	each
108153	1000 mL	10.0 mL	±6.00 mL	each
108154	2000 mL	20.0 mL	±12.00 mL	each



Cylinder, Graduated, Polypropylene, HOLDFAST™

One-piece polypropylene construction with a molded in handle top ensure a secure, solid grip and superior control for safer, more convenient pouring. The "Total Contained, Total Delivered" double scale is accurate and easy to read (cylinder will not create a meniscus), while the hexagonal base prevents tipping or rolling. Hand opening is 89 x 29 mm (3 x 1 1/8"). Steam autoclavable up to 121°C (250°F).

Prod. No.	Capacity	Unit
2612953	1000 mL	each
2612954	2000 mL	each



Cylinder, Graduated, Mixing, Glass

This glass graduated cylinder is calibrated "to contain" with a molded in base. Each includes glass penny head stopper. Graduations are in durable white enamel bake.

Prod. No.	Capacity	Subdivisions	Tolerance	Stopper
2088638	10 mL	0.2 mL	±0.1 mL	9
2088640	25 mL	0.1 mL	±0.2 mL	13
2088641	50 mL	1.0 mL	±0.5 mL	16
2088642	100 mL	1.0 mL	±1.0 mL	16
2088646	250 mL	2.0 mL	±2.0 mL	22



Cylinder, Graduated, Mixing, Class A

This certified, Class A glass mixing cylinder is calibrated "to contain" according to ASTM E542 & E1272. Serialized and traceable to NIST standards (includes Certificate of Identification and Capacity). Single metric scale in durable white markings with funnel-top. Glass penny head stopper included.

Prod. No.	Capacity	Subdivisions	Tolerance	Stopper
2636338	10 mL	0.1 mL	±0.08 mL	9
2636340	25 mL	0.2 mL	±0.14 mL	13
2636341	50 mL	1.0 mL	±0.20 mL	16
2636342	100 mL	1.0 mL	±0.35 mL	22
2636346	250 mL	2.0 mL	±0.65 mL	27
2636349	500 mL	5.0 mL	±1.10 mL	32
2636353	1000 mL	10.0 mL	±2.00 mL	32

Cylinder, Graduated, Mixing, Class B

Scale is durable white ceramic enamel. Designed to meet ASTM Specification E1272, Style 2 (Class B). Includes glass stopper.



Prod. No.	Capacity	Subdivisions	Tolerance	Stopper
189640	25 mL	0.5 mL	±0.3 mL	13
189641	50 mL	1.0 mL	±0.4 mL	16
189642	100 mL	1.0 mL	±0.6 mL	22

Demineralizer Bottle

Narrow mouth, polyethylene bottle. Contains monobed resin. Flip spout. Great way to deionize small volumes of water. Used with Hach Portable Laboratories.



Prod. No.	Description	Unit
1429900	177 mL (6 oz) capacity	each
2184600	473 mL (16 oz)	each
31101H	Demineralizer Resin, 380g	each
591200	Cap only for 177 mL bottle, Sprinkler w/screen	each
2187201	Cap only for 473 mL bottle, Sprinkler w/screen	each

Demineralizer Cartridges



Ultra Pure: No dye in resin. Largely free of silica and carbon dioxide.

Organic Removal: Activated carbon removes organic and chlorines from feed water. Place ahead of Ultra Pure or High Capacity cartridge. Replace after second demineralizer cartridge replacement.

High Capacity: Lower purity than Ultra Pure.

Prod. No.	Type	Finished Water Specifications			
		Resistance	Capacity	pH	Tubing
2079100	Ultra Pure	1 meg ohm/cm endpoint	13,000 mg ionized solids	6.8-7.2	3'
2074200	Organic Removal		5500 L	NA	each
2079200	High Capacity	175,000 ohm/cm	29,500 mg ionized solids		each
2079400	Wall Bracket-slotted plastic bracket (required) makes for simple wall mounting and provides easy inspection of cartridge. Height of cartridge in bracket is 18"				each
2951343	Tubing, 10'				each

Desiccant

Indicating Drierite® changes from a blue color when dry to red upon absorption of moisture. Packaged in 454-g (1 lb) containers.



Prod. No.	Description	Unit
2285901	Drierite (without indicator)	each
2088701	Indicating Drierite	each

Desiccator Cabinet, Non-Vacuum



Stackable, polystyrene, transparent from any side. Door has foam rubber gasket, two roller latches for airtight fit. Jar of silica gel included. Inside dimensions: 21 x 18 x 13 cm (8.25 x 7 x 5"). Door opening: 19 x 11 cm (7.5 x 4.4"). Desiccator Grease available and sold separately.

Prod. No.	Description	Unit
2618100	Polystyrene Desiccator	each
56275	Desiccator Grease	each

Desiccator, Polycarbonate

Round polycarbonate cover and polypropylene base create implosion-proof chamber at full vacuum. Chamber is impervious to alkali and acidic conditions. Recessed rim prevents grease (not included) from contacting bench surfaces when removed and eliminates need for a separate gasket. Vacuum model features leak-proof stopcock. Dimensions (height x diam): 245 mm x 330 mm (9.7" x 13"). Holds 454 g (1 lb) of dessicant. Ceramic dessicator plate (sold separately) is inert, non-stick, and corrosion resistant. Quadrants crafted into plate for easy tracking of material locations. Plate diameter: 230 mm (9").



Prod. No.	Description	Unit
2088800	Vacuum Desiccator	each
1428500	Non-vacuum Desiccator	each
1428400	Ceramic Desiccator Plate	each
56275	Desiccator Grease	each

Desiccator, Polycarbonate

Round polycarbonate top provides lightweight vessel with unmatched transparency. Polypropylene lower section creates support chamber at full vacuum. Stopcock for vacuum applications (1/4-3/8" OD vacuum tubing, sold separately). Holds 28 in Hg (711 mm) for 24 hrs. Silicone O-ring makes grease unnecessary. For room temperature, non-organic solvent, and non-autoclave uses only. Optional Ceramic Desiccator Plate available and sold separately. Ceramic Plate features marked, numbered quadrants for easy location of crucibles and other containers.



Prod. No.	Description	Unit
2238300	Polycarbonate Desiccator	each
1428400	Ceramic Desiccator Plate	each

Detergents — Dish

Detergent, Alconox® Powder

Anionic powder for general-to-critical cleaning. pH 9.0-9.5. Contains phosphate.

Prod. No.	Description	Unit
2088000	1.8 kg (4 lb)	each



Detergent, Alcotabs®

Effervescent tablet. Recommended for glassware cleaning with siphon-tube rinsers. Contains phosphate.

Prod. No.	Description	Unit
2088200	100 tablets	each



Detergent, Liqui-Nox®

Anionic and non-ionic detergents with wetting agents. pH 8.0-8.6.

Prod. No.	Description	Unit
2088153	946 mL (1 qt)	each
2088117	3.78 L (1 gal)	each



Detergent, RoVer® Rust Remover

Fast-acting RoVer gets rid of stains on glassware. A 10 minute soak in a solution of 2 tablespoons RoVer/gallon of water restores clarity to glassware.

Prod. No.	Description	Unit
30001	454 g	each
30012	454 g	12/pk
30040	18 kg	each
30025	114 kg	each



Dish, Glass, Evaporating

Glass flat bottom dish with straight sides. Reinforced and firepolished rims reduce chipping. Ideal for storage and crystallization.



Prod. No.	Capacity	Diameter x H (mm)	Unit
2764700	740 mL	125 x 65	each

Dish, Evaporating Glass, VYCOR®

Glass VYCOR dishes are made of Code No. 7913 glass which has high thermal and chemical resistance (stable with acids, water and steam). Can be used continuously at 900°C, and intermittently to 1200°C. Being of a very simple composition of only five elements, it is used for very precise analytical work. Useful for ashing material, particularly in electric furnaces.



Prod. No.	Capacity	Diameter x H (mm)	Unit
2241242	100 mL	90 x 42	each

Dish, Evaporating, Porcelain

Deep-form, round bottom with lip. Glazed except for rim. Temperatures to 1500°C (max change = ±200°C/hr).



Prod. No.	Capacity	Diameter x H (mm)	Unit
52590	70 mL	75 x 30	each
52561	120 mL	94 x 42	each
52565	250 mL	115 x 45	each

Dish, Disposable

Aluminum dish for evaporating and general utility use. Slightly fluted sides with flanged rims. Temperature range 0 to 426°C (800°F). Melting point 676°C (1250°F). Dish height approx. 3/4".



Prod. No.	Capacity	Diameter (mm)	Unit
2164000	60 mL	64	100/pk

Dish, Moisture Determination



Prod. No.	Diameter	Unit
2551910	10 cm (4")	50/pk



Dish, Petri, Aluminum

25 x 50 mm reusable aluminum dish can be autoclaved or flame sterilized.

Prod. No.	Unit
2641300	6/pk

Dish, Petri, Polystyrene

Smaller size standard for water, wastewater, food and beverage analysis using 2.0 mL media. Stackable and disposable. Available with or without nutrient pad.



Prod. No. 1485299



Prod. No. 2936300

Prod. No.	Description	Unit
1485299	Dish only	100/pk
1485200	Dish only	500/pk
2936300	Dish w/pad (Millipore)	150/pk
1471799	Dish w/pad (PALL)	100/pk
1491800	Absorbent Pad w/ Dispenser	1000 pads (10 tubes/100 pads)

Dispenser, Adjustable-Volume

Adjustable Volume (5-50 mL) dispenser with graduated TPX cup. Slide cup to desired volume and a quick squeeze and release of the polyethylene storage bottle dispenses the desired volume.

Prod. No.	Description	Unit
2244946	Dispenser, Adjustable Volume; 250 mL	each
2244949	Dispenser, Adjustable Volume; 500 mL	each
2227400	500 mL storage bottle	each



Dispenser, Digital, Adjustable-Volume

Attach dispenser directly to reagent bottle for adjustable dispensation with a single stroke. Inert hardware designed to handle alkaline, acidic and organic solutions. Autoclavable (121°C). Dispenser fits bottles with a 33 mm screw-neck finish (supplied with adapters to fit 28, 38 and 45 mm finishes). Dispenser rotates 360°.



Prod. No.	Description	Accuracy	Variation	Unit
2563137	1.0-5.0 mL	<0.7%	<0.1%	each
2563140	1.0-10.0 mL	<0.7%	<0.1%	each
2569000	38 mm adapter			each
2817000	22 mm adapter			each

Dispenser, Fixed-Volume, Repipet Jr.

2% accuracy and 5% reproducibility. 1.0 mL dispenser comes with amber glass and plastic bottle. Five interchangeable cap/adaptor sets for container flexibility. Cap adapter sets for use with any reagent bottle having a 20-400, 22-400, 24-400, 28-400 or 38-400 screw cap. 12" Teflon intake-tubing included.



Prod. No.	Description	Unit
2111302	1.0 mL Dispenser	each
2230701	2.0 mL Dispenser, Only	each
2270534	Replacement plunger and barrel; 1.0 mL	each
2199100	Replacement valve seals	2/pk
2937806	Amber glass bottle 237 mL (8 oz)	6/pk
2937906	Amber glass bottle 437 mL (16 oz)	6/pk

Dispenser, Glass Tilting

Spring-fitted head secured into Erlenmeyer flask. Inversion of unit fills measuring tube with 10 mL of liquid for easy dispensing.

Prod. No.	Description	Unit
2220038	10 mL Pour-Out Dispenser	each



Distillation Apparatus

Fast set-up for sample pretreatment. Distillation sets include only EPA-approved glassware. Easy to set up because you only receive the parts you need. Illustrated, step-by-step procedures simplify distillation.

Prod. No.	Description	Unit
2265300	General Purpose Distillation Apparatus Set (Heater and support apparatus also required)	each
2265400	Arsenic Set (General Purpose Set and Heater and Support Apparatus also required)	each
2265800	Cyanide Set (General Purpose Set and Heater and Support Apparatus also required)	each

Accessories

2264806	Connector (20400 to 20400), J-tube	6/pk
2274000	Connector (13425), Thermometer	each
2274106	Connector (24400 to 24400), Cylinder	6/pk
2265308	Distillation Procedures Manual	each
2274400	Heater and Support Apparatus	each
2274402	Heater and Support Apparatus, 115 Vac, 60 Hz	each
2274402	Heater and Support Apparatus, 230 Vac, 50 Hz	each
2274300	Laboratory Platform Jack	each
2095926	Thermometer, mercury, -10 to 260°C (20 to 500°F)	each

Be sure to see our complete Sample Preparation Section, pages 95-100.

General Purpose Assembly with Heater and Support



Heater and Support sold separately.

Distillation Apparatus Replacement Parts

Product No.	Description	Distillation Set			Pack
		General Purpose	Arsenic	Cyanide	
50048	Beaker, glass, 400 mL	•	•	•	each
50547	Flask, Erlenmeyer, 300 mL	•	•	•	each
2095351	Stir bar, octagonal, 25.4 x 7.9 cm (1.0 x 0.3 ")	•	•	•	each
2095926	Thermometer, mercury, -10 - 260°C	•	•	•	each
2264649	Flask, distillation, 500 mL	•	•	•	each
2264706	Cap, black phenolic, 20-400	•	•	•	pk/6
2264806	Connector, 20-400 to 20-400	•	•	•	pk/6
2264900	J-tube, 20-400	•	•	•	each
2265000	Condenser, 20-400	•	•	•	each
2265100	Drip tube, 20-400	•	•	•	each
2273900	Cap, black phenolic, 13-425	•	•	•	each
2274000	Connector, thermometer, 13-425	•	•	•	each
2274106	Connector, 24-400 to 24-400	•	•	•	pk/6
2264467	Funnel, powder		•		each
2265500	Gas Scrubber, 20-400		•		each
54649	Flask, filtering, 500 mL			•	each
56018	Tubing, latex, 1/4 " ID, 12 '	•		•	each
213100	Aspirator, w/ check valve			•	each
679045	Cable tie	•		•	each
1787500	Flowmeter, air			•	each
1787700	Stopper assembly			•	each
1810602	Tubing, latex, 3/16" ID, 2'			•	each
2265600	Thistle tube			•	each

Electrode Washing — Filter Capsules & Holders

Electrode Washing Station

Provides a safe, convenient work station to clean delicate pH electrodes without the risk of damage to the sensors. Unit consists of a polyethylene spray chamber to surround electrodes, a 500 mL polyethylene distilled water reservoir and a length of tubing to drain the chamber. The electrode hangs into the spray chamber and with a squeeze of the reservoir, a spray of water rinses the electrode. Base diameter is 14cm (5.5"). Washer height is 21cm (8.25").



Prod. No.	Description	Unit
2704700	Electrode Washing Station	each

Eye Wash Bottle

Pocket bottle provides portable, immediate eye-wash care for field and on-site eye care. Includes polyethylene bottle with eye cup and snap-on cover. Instructions printed on bottle. Eye wash solution not included.



Prod. No.	Description	Unit
2239514	120 mL (4 oz) eye wash bottle	each

Eye Wash Station, Faucet-Mounted

Faucet-mounted eye wash station features actuator pin to deliver a dual stream of water to face and eyes. Chrome-plated brass mounts directly to existing faucets and does not interfere with normal faucet use.



Prod. No.	Description	Unit
2550300	Eye wash station, faucet mount	each

Filter Capsules & Holders

PALL Envirocheck HV Sampling Capsule

Simple and safe capsules eliminate contact with organisms. No filter holder assembly or cleaning required, and the self-contained capsule means that the potentially contaminated filter element does not need to be handled or cut apart. Capsules replace traditional string wound filter method and increase capture and recovery of organisms by 15 times. Capsule method results in a smaller pellet after elution, requiring less analysis time and cost, and does not affect the viability of the organisms like harsh chemicals used in other techniques. Disposable design eliminates false positives from cross-contamination. The 1 µm pore size membrane eliminates false negatives for 100% collection of Cryptosporidium and Giardia. Serialized for traceability. Approved by regulatory agencies worldwide, including U.S. EPA methods 1622 and 1623, United Kingdom DWI standard operating protocols, and ISO/DIS 15553.



Prod. No.	Description	Unit
2686100	Envirocheck Sampling Capsule	each
2811200	Envirocheck HV Sampling Capsule	each
2811225	Envirocheck HV Sampling Capsule	25/pk

PALL AcroCap™ Positive Pressure Device



For sterilization or clarification of up to three liters of culture media or other aqueous solutions. Ideal for sterilization of solutions that tend to foam when filtered under vacuum. Inlet accepts 6.4 mm (0.25") tubing or most male luer fittings.

Prod. No.	Description	Unit
2323810	AcroCap Positive Pressure Device	10/pk

Filter Capsules & Holders continued on next page.

Filter Capsules & Holders

Filter Capsules & Holders (continued)

Hach Syringe Filters, Non-Sterile

Hach syringe filters offer an efficient way to remove particulates from samples prior to analysis. Filters feature 20% more surface area than standard 25 mm filters, which increases flow rates and capacity. Choose PVDF filters for solutions containing proteins. Choose Nylon filters for broad chemical compatibility and organic solutions. Standard Female Luer-Lok inlet with standard male slip Luer outlet. Hydrophilic.



Prod. No.	Description	Diameter	Pore Size	Unit
2513600	Nylon Syringe Filter	33 mm	0.2µm	50/pk
2513601	PVDF Syringe Filter	33 mm	0.22µm	50/pk
2513602	PVDF Syringe Filter	33 mm	0.45µm	50/pk

Hach Syringe Filters, Sterile



This Hydrophilic polyethersulfone (PES) filter has a faster flow rate and twice the throughput of standard 25 mm syringe filters. Sterilized by gamma irradiation. Standard Female Luer-Lok inlet with standard male slip Luer outlet.

Prod. No.	Description	Diameter	Pore Size	Unit
2513700	PES Sterile Syringe Filter	33 mm	0.22µm	50/pk

PALL AcroDisc® Syringe Filters

For filtration of dilute biological fluids. Sterilized by gamma irradiation to eliminate potential contamination by EtO residuals. Inlet/Outlet connections: 13/25 mm: Female Luer-Lok inlet, standard male slip Luer outlet. Pore size: 0.2 µm. Diameter: 25 mm.

Prod. No.	Description	Unit
2415600	AcroDisc Syringe Filters	each

PALL Easy Pressure Syringe Filter Holder

Accepts 25 mm filter discs for fast filtration of 1-10 mL of sample. Autoclavable. Fits most standard syringes with Luer inlet and outlets.



Prod. No.	Description	Unit
246800	Easy Pressure Syringe Filter Holder	each
2258700	60 cc syringe	each

Millipore Microfil and Microfil V Funnels



Designed to eliminate cleaning and sanitization of filter funnels between uses. Graduated (20, 50, and 100 mL) 100 mL funnels are sterile and ready-to-use. Funnel creates leak-proof seal when seated onto Microfil Stand Alone Support. Excellent for testing water samples from potable, non-potable, source, ambient, industrial, food, beverage, pharmaceutical and wastewater sources. Microfil funnels come with 72 Millipore filters (white; gridded; cellulose and mixed ester composition; 0.45 µm pore size; 47 mm diameter; sterile; individually packed). Microfil V includes integrated filter for added convenience and can be used with standard No. 8 stopper on any filter holder or manifold.

Prod. No.	Description	Unit
2586300	Microfil Funnels; 100 mL	72/pk
2508900	Microfil V Funnels, 100 mL, w/integral membrane	24/pk

Millipore Microfil Stand Alone Support

For membrane filtration features unique membrane lifting device. Depressing the lever breaks the vacuum and lifts the membrane above the 47 mm membrane support for easy retrieval with sterilized forceps. Designed for use with Microfil funnels (see Filtration Funnels), creating an efficient, low-maintenance system for membrane filtration in the lab or field. Rugged metal construction with vacuum side-arm at the base. Works with any vacuum source

Prod. No.	Description	Unit
2586200	Millipore MicroFil Filter Assembly	each
2586100	140 cc syringe	each

PALL MicroFunnel™ LP Funnels

Feature a completely assembled filtration unit: Funnel, filter, nutrient pad and petri dish. Filter: GN-6 Metricel with 0.45 µm pore size and 47 mm diameter; white, gridded surface. Funnel: Polypropylene Petri Dish: polystyrene lid and polypropylene base Nutrient Pad: Cellulose. Fits 2831500, 2846100 and 2846150 manifolds. Sterile and individually bagged.

Prod. No.	Description	Unit
2831500	MicroFunnel™ LP Funnels	50/pk

PALL MicroFunnel™ II Funnels

Feature a completely assembled filtration unit: Funnel, filter, and petri dish. Filter: 47 mm, white with gridded surface, 0.45 µm GN-6 Metricel media Funnel: Polypropylene Petri Dish: polystyrene lid and polypropylene base Fits 28315-00, 28461-00 and 28461-50 manifolds. Sterile and individually bagged.

Prod. No.	Description	Unit
2619000	MicroFunnel™ II Funnels	50/pk

Membrane and Disc Filters



Hach Filter Discs

Glass fiber filter ideal for volatile suspended solids of water and wastewater. Also ideal for TCLP analysis. Filters can withstand temperatures of 550°C (1022°F).

Prod. No.	Diameter	Pore Size	Unit
2513800	47 mm	0.7 µm	100/pk

Nylon hydrophilic discs offer broad chemical compatibility for use in filtration of aqueous or organic solutions. Most commonly used to filter samples prior to HPLC analysis.

Prod. No.	Diameter	Pore Size	Unit
2513900	47 mm	0.45 µm	100/pk

For use in a wide-range of laboratory applications, these discs are composed of Mixed-Cellulose Esters and are the industry standard for particulate removal, particulate analysis and clarification of fluids.

Prod. No.	Diameter	Pore Size	Unit
2209525	25 mm	0.45 µm	25/pk
2514101	25 mm	0.45 µm	100/pk
2514102	47 mm	0.8 µm	100/pk

Millipore S-Pak Type HA Membrane Filters

For membrane filtration in microbiological analysis of aqueous samples. "HA" signifies certified compliance with Standard Methods criteria with pore size of 0.45 µm. White, cellulose and mixed-ester composition. S-Pak (filter only) is sterile. Diameter: 47 mm.

Prod. No.	Description	Unit
2936500	S-Pak (individually packaged) HA-type: gridded, sterile	pk/600

Millipore S-Pak Type HC Membrane Filters

Certified for fecal coliform analysis. Larger pore size (0.7 µm) and funnel-like pores creates a less taxing environment for stressed organisms: lessens media loss from evaporation and easier filtration of high particulate samples common to effluents. White cellulose and mixed-ester composition. Sterile and individually packaged. "HC" signifies certified compliance with Standard Methods criteria with pore size 0.7 µm. Diameter: 47 mm.

Prod. No.	Description	Unit
2936600	S-Pak (individually packaged) HC-type: gridded, sterile	pk/600

Millipore EZ Pak System



Dispenser provides superior convenience and assures sterility. Unique one press on the lever and a sterile membrane is presented (horizontally and inverted) for efficient and convenient assembly. The EZ Pak membranes come as a band of membranes that easily loads into the dispenser. Packaging materials are wound into the dispenser ensuring a clear operating area and quick change of bands. The membranes are Type HA, which signifies compliance with Standard Methods criteria.

Prod. No.	Description	Unit
2916700	Millipore EZ Pak Dispenser	each
2916800	Millipore EZ Pak membranes; white, gridded, 0.45 µm pore size, 47 mm	600/pk (4 x 150)
2915900	Millipore EZ Pak membranes; black, gridded, 0.45 µm pore size, 47 mm	600/pk (4 x 150)
2916900	Millipore EZ Pak membranes; white, gridded, 0.22 µm pore size, 47 mm	600/pk (4 x 150)

PALL GN-6 Metrical Membrane Filters

White mixed-cellulose ester media provides maximum retention, recovery and enumeration of microorganisms. Filters are ideal for membrane filtration of total and fecal coliforms, *E. coli*, *Streptococcus* species, heterotrophic bacteria and fungi. Meets or surpasses USEPA and ASTM specifications.

Pore size: 0.45 µm. Diameter: 47 mm.

Prod. No.	Description	Unit
1353000	Plain, non-sterile	100/pk
2618901	Gridded, non-sterile	100/pk
1353001	Individually packaged, gridded, sterile	200/pk
1353002	Individually packaged, gridded, sterile	1000/pk
2126900	10 x pk/10, gridded, sterile, w/nutrient pad	100/pk

PALL Supor® 200 Membrane Filter

For isolation and enumeration of stressed organisms (*Pseudomonas* species). High retention and flow rate. Certified for use in membrane filtration analysis. White polyethersulfone media. Sterile and individually packaged.

Pore size: 0.2 µm. Diameter: 47 mm.

Prod. No.	Description	Unit
2618800	Supor 200 Membrane Filter (ind. packaged): gridded, sterile	200/pk

PALL Metrical® Black Membrane

Provides contrast for microbiological and particulate analysis. Modified polyethersulfone creates dark background for excellent contrast useful in enumerating opaque colonies and light-colored particulate. White grid line aids enumeration. Certified for membrane filtration analysis. Sterile and individually packaged. Pore size: 0.45 µm. Diameter: 47 mm.

Prod. No.	Description	Unit
2490300	Metrical Black Membrane Filter (ind. packaged): gridded, sterile	200/pk

Filter, Groundwater, High Capacity, GWV

Compact, disposable in-line filters for dissolved metals analysis. Eliminate cleaning and autoclaving steps and reduce multiple filter changes when sampling silt and particulate-laden groundwater. Polypropylene Housing. Supor® Filters: 0.45 µm pore size; 600 cm² effective filtration area; 6.8 cm diameter; 13.7 cm with fittings; tapered hose barb accepts 6.4 to 12.7 mm (1/4 to 1/2") tubing; continuous 60 psid at ambient temperature.

Prod. No. **Unit**
2670500 each



Filters, Glass Microfiber



Useful for high through-put prefiltration of viscous and heavily contaminated samples. Pack of 100.

Prod. No.	Diameter	Pore Size	Approx. Grade
2551400	47 mm	1.0 µm	GM - AE

Filtration of suspended solids in water, wastewater and as a prefilter for membranes. Pack of 100.

Prod. No.	Diameter	Pore Size	Approx. Grade
2215500	24 mm	1.0 µm	GM - B

Standard filter for the clarification and monitoring of water and wastewater. Pack of 100.

Prod. No.	Diameter	Pore Size	Approx. Grade
2551600	21 mm	1.2 µm	GM - C

Made from 100% borosilicate glass fibers. Best used in general laboratory work and as a prefilter for membrane filtration. Pack of 100.

Prod. No.	Diameter	Pore Size	Approx. Grade
2164300	70 mm	2.7 µm	GM - D

Made from 100% borosilicate glass fibers. Filters the finest particles from HPLC solvents or TLC extracts. Pack of 100.

Prod. No.	Diameter	Pore Size	Approx. Grade
2676600	47 mm	0.7 µm	GM - F

Filters, Preweighed Glass Fiber



Individually preweighed 47 mm Quik-Weigh filter papers—pretreated, preweighed in compliance with Standard Methods Total Suspended Solids procedure. Box of 100, each in 65 mm planchet with tare weight listed. Each tare weight meets Standard Methods specifications. Pack of 100.

Prod. No.	Diameter (mm)	Pore Size
2546100	47	1.5 µm

Filters, Qualitative (QL)

QL Filters are recommended for use in various environmental and wet chemistry reference methods. Extremely pure cellulose filters of nearly 100% alpha content are specially processed to yield negligible extractable levels in the determination and identification of unknown sample materials. Pack of 100.



QL 1 Filters—Circular, Medium Retention (8–12 µm)

Prod. No.	Diameter (mm)	Approx. Grade
50651	42.5	1
50652	55	1
50653	70	1
50655	90	1
50656	110	1
50657	125	1
50658	150	1
50659	185	1

Filters, Quantitative (QT)



Hach® QT Filters are recommended for use in various *Hach Water Analysis Handbook Methods* and other environmental reference methods. Optimized ashless hardened circles provide an abrasion resistant smooth surface which is ideal for gravimetric procedures utilizing Büchner funnels and high vacuum. Pleated filters, increase flow rates by doubling the effective filtration area of the same diameter filter circle compared to quadrant folded filters. Available in a range of retention ratings, circle diameters, and pleated formats, Hach has a QT Filter that's right for your critical wet chemistry or environmental application. Pack of 100.

QT 40 Filters—Circular, Medium Retention (8-12 µm)

Prod. No.	Diameter (mm)	Approx. Grade
52651	42.5	40
52652	55	40
52653	70	40
52655	90	40
52656	110	40
52657	125	40
52658	150	40
52659	185	40

QT 42 Filters—Circular, Fine Retention (2-3 µm)

Prod. No.	Diameter (mm)	Approx. Grade
55351	42.5	42
55352H	55	42
55353	70	42
55355	90	42
55356	110	42
55357	125	42
55358	150	42
55359	185	42

QT 42P Filters—Pleated, Fine Retention (2-3 µm)

Prod. No.	Diameter (mm)	Approx. Grade
189457	125	42P
189458	150	42P
189459	185	42P
189460	240	42P

QT 45P Filters—Pleated, Medium-Slow Retention (3-5 µm)

Prod. No.	Diameter (mm)	Approx. Grade
69257	125	45P
69258	150	45P
69259	185	45P

QT 47 Filters—Circular, Fine-Slow Retention (1-2 µm)

Prod. No.	Diameter (mm)	Approx. Grade
2546259	185	47

Filters, SPE Oil & Grease for Clean, NPDES-type Samples

ValuSep™ SPE Filters for EPA Method 1664A are designed to provide high recovery and low blank values in Horizon® SPE-DEX® and SPE Manifold applications. Chemically treated with a proprietary reverse phase adsorbent, single layer borosilicate glass ValuSep™ SPE Filters (47mm) can filter the 40 mg/L EPA PAR standard in approximately 10 minutes with significantly faster filtration times for 1 L NPDES-type samples. ValuSep™ SPE Filters offer high recoveries and low blanks at a great price.



Prod. No.	Description	Diameter	Pore Size	Unit
2947801	Valusep SPE Filter	47 mm	1.0 µm	50/pk
2947802	Valusep SPE Filter	90 mm	1.0 µm	50/pk
2947808	Valusep SPE Filter	47 mm	1.0 µm	300/pk
2947809	Valusep SPE Filter	90 mm	1.0 µm	300/pk
2947901	Prefilter, Glass Micro Fiber	47 mm	5.0 µm	25/pk
2947902	Prefilter, Glass Micro Fiber	90 mm	5.0 µm	25/pk

Horizon® and SPE-DEX® are registered trademarks of Horizon Technology, Inc

Filters, SPE Oil & Grease for Moderately Dirty Samples

Designed for moderately dirty samples, Xenomax™ Solid-Phase Extraction (SPE) Filters for EPA Method 1664A provide maximum recovery, speed and particulate loading capacity. Chemically treated with a proprietary reverse phase adsorbent, triple layer borosilicate glass Xenomax™ SPE Filters (47mm) can filter the 40 mg/L EPA PAR standard in approximately 20 seconds with similar filtration times for 1-L NPDES-type samples. Xenomax™ SPE Filters provide maximum analyte recovery, particulate loading capacity and processing speed when used with Xenosep® SPE Glassware.



Prod. No.	Description	Diameter	Pore Size	Unit
2943300	Xenomax SPE Filter	47 mm	1.0 µm	48/pk
2943301	Xenomax SPE Filter	47 mm	1.0 µm	24/pk
2948201	Xenomax SPE Filter	90 mm	1.0 µm	12/pk
2948202	Xenomax SPE Filter	95 mm	1.0 µm	12/pk
2514200	Prefilter, Glass Micro Fiber	45 mm	5.0 µm	48/pk
2514201	Prefilter, Glass Micro Fiber	83 mm	5.0 µm	12/pk

Filters, Soil Analysis (SA)

Designed for sandy soils, SA filters are conically folded and have been optimized for use with the common extraction solutions used in soil nutrient analysis (Mehlich 1, Mehlich 3, Morgan, Modified Morgan, Bray, and Olsen). SA Filters provide the best combination of retention rating, filtration speed and purity requirements for soil nutrient testing (P, K, Ca, Mg). 500/pack.



Prod. No.	Description	Diameter	Pore Size
2263356	SA - Conical Filter, Medium Retention for Sandy Soils	110 mm	8-12µm

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- Maintain your "favorites" list, request quotes, and much more!



Filters, Total Suspended Solids (TSS)



TSS Filters are recommended for use in *Standard Methods 2540 C and 2540 D*. Optimized surface characteristics of this binderless borosilicate glass microfiber filter eliminates pin-holing and fiber-shedding to ensure consistent, accurate results. Fast flow rate, fine porosity and 1.5 µm particle retention makes the TSS Filter the preferred choice of environmental chemists for total suspended solids analysis of water and wastewater.

Prod. No.	Diameter (mm)	Unit
2198720	20	100/pk
2198725	25	100/pk
2198730	30	100/pk
253051	42.5	100/pk
253000	47	100/pk
253055	55	100/pk
253053	70	100/pk
2198755	90	100/pk
2569100	110	100/pk

Filter Quick Reference Guide

Sterile Filters

Pore Size (µm)	Diameter (mm)	Material	Type	Gridded	Equivalent Whatman® Grade	Product Number	Units
0.2	47	Polyethersulfone	Circular, Gridded	Y	PES	2618800	200/pk
0.22	47	Mixed-Cellulose Ester	Circular, Gridded	Y	WME	2916900	600/pk
0.45	47	Mixed-Cellulose Ester	Circular, Gridded, Ind.	Y	WME	2936100	150/pk
0.45	47	Mixed-Cellulose Ester	Circular, Gridded, Ind.	Y	WME	2936500	600/pk
0.45	47	Mixed-Cellulose Ester	Circular, Gridded, Ind.	Y	WME	1353001	200/pk
0.45	47	Mixed-Cellulose Ester	Circular, Gridded, Ind.	Y	WME	1353002	1000/pk
0.45	47	Mixed-Cellulose Ester	Circular, Gridded, 10pk, w/pad	Y	WME	2126900	100/pk
0.45	47	Mixed-Cellulose Ester	Circular, Black, Gridded, Ind.	Y	WME	2490300	200/pk
0.45	47	Mixed-Cellulose Ester	Circular, Black, Gridded	Y	WME	2915900	600/pk
0.45	47	Mixed-Cellulose Ester	Circular, Gridded	Y	WME	2916800	600/pk
0.7	47	Mixed-Cellulose Ester	Circular, Gridded, Ind.	Y	WME	2936200	150/pk
0.7	47	Mixed-Cellulose Ester	Circular, Gridded, Ind.	Y	WME	2936600	600/pk

Non-Sterile Filters for Solid-Phase Extraction - Oil & Grease Testing - EPA Method 1664A

Pore Size (µm)	Diameter (mm)	Material	Type	Gridded	Equivalent Whatman® Grade	Product Number	Units
1	47	Glass Microfiber	Circular, Plain	-	-	2947801	50/pk
1	47	Glass Microfiber	Circular, Plain	-	-	2947808	300/pk
1	47	Glass Microfiber	Circular, Plain - Extra Thick	-	-	2943300	48/pk
1	47	Glass Microfiber	Circular, Plain - Extra Thick	-	-	2943301	24/pk
1	90	Glass Microfiber	Circular, Plain	-	-	2947802	50/pk
1	90	Glass Microfiber	Circular, Plain	-	-	2947809	300/pk
1	90	Glass Microfiber	Circular, Plain - Extra Thick	-	-	2948201	12/pk
1	95	Glass Microfiber	Circular, Plain - Extra Thick	-	-	2948202	12/pk
5	45	Glass Microfiber	Prefilter - Circular, Extra Thick	-	-	2514200	48/pk
5	47	Glass Microfiber	Prefilter - Circular, Plain	-	-	2947901	25/pk
5	83	Glass Microfiber	Prefilter - Circular, Extra Thick	-	-	2514201	12/pk
5	90	Glass Microfiber	Prefilter - Circular, Plain	-	-	2947902	25/pk



Filter Quick Reference Guide

Non-Sterile Filters

Pore Size (µm)	Diameter (mm)	Material	Type	Gridded	Equivalent Whatman® Grade	Product Number	Units
0.2	25	Polycarbonate	Circular, Black	N	Cyclopore® - Nuclepore®	2387200	100/pk
0.45	25	Mixed-Cellulose Ester	Circular, Plain	N	ME 25	2209525	25/pk
0.45	25	Mixed-Cellulose Ester	Circular, Plain	N	ME 25	2514101	100/pk
0.45	47	Mixed-Cellulose Ester	Circular, Plain	N	WME	1353000	100/pk
0.45	47	Nylon	Circular, Plain	N	Nylon	2513900	100/pk
0.45	47	Mixed-Cellulose Ester	Circular, Gridded	Y	WME	2618901	100/pk
0.7	47	Glass Microfiber	Circular, Plain	N	GF/F	2676600	100/pk
0.7	47	Glass Microfiber	Circular, Plain	N	934-AH® <550°C	2513800	100/pk
0.8	47	Mixed-Cellulose Ester	Circular, Plain	N	WME	2514102	100/pk
1.0	24	Glass Microfiber	Circular, Plain	N	GF/B	2215500	100/pk
1.0	47	Glass Microfiber	Circular, Plain	N	GF/B	2551400	100/pk
1.0	47	Glass Microfiber	Circular, Plain - Extra Thick	N	-	2842100	100/pk
1.0	102	Glass Microfiber	Circular, Plain	N	GF/B	2842000	100/pk
1.2	21	Glass Microfiber	Circular, Plain	N	GF/C	2551600	100/pk
1.5	20	Glass Microfiber	Circular, Plain	N	934-AH® <500°C	2198720	100/pk
1.5	25	Glass Microfiber	Circular, Plain	N	934-AH® <500°C	2198725	100/pk
1.5	30	Glass Microfiber	Circular, Plain	N	934-AH® <500°C	2198730	100/pk
1.5	42.5	Glass Microfiber	Circular, Plain	N	934-AH® <500°C	253051	100/pk
1.5	47	Glass Microfiber	Circular, Plain	N	934-AH® <500°C	253000	100/pk
1.5	47	Glass Microfiber	Circular, Preweighed	N	-	2546100	100/pk
1.5	55	Glass Microfiber	Circular, Plain	N	934-AH® <500°C	253055	100/pk
1.5	70	Glass Microfiber	Circular, Plain	N	934-AH® <500°C	253053	100/pk
1.5	90	Glass Microfiber	Circular, Plain	N	934-AH® <500°C	2198755	100/pk
1.5	110	Glass Microfiber	Circular, Plain	N	934-AH® <500°C	2569100	100/pk
1.5	185	Cellulose	Circular, Plain	N	-	2546259	100/pk
2.7	70	Glass Microfiber	Circular, Plain	N	GF/D	2164300	100/pk
2 - 3	42.5	Cellulose	Circular, Plain	N	42	55351	100/pk
2 - 3	55	Cellulose	Circular, Plain	N	42	55352H	100/pk
2 - 3	70	Cellulose	Circular, Plain	N	42	55353	100/pk
2 - 3	90	Cellulose	Circular, Plain	N	42	55355	100/pk
2 - 3	110	Cellulose	Circular, Plain	N	42	55356	100/pk
2 - 3	125	Cellulose	Circular, Plain	N	42	55357	100/pk
2 - 3	125	Cellulose	Pleated (Folded)	N	42	189457	100/pk
2 - 3	150	Cellulose	Circular, Plain	N	42	55358	100/pk
2 - 3	150	Cellulose	Pleated (Folded)	N	42	189458	100/pk
2 - 3	185	Cellulose	Circular, Plain	N	42	55359	100/pk
2 - 3	185	Cellulose	Pleated (Folded)	N	42	189459	100/pk
2 - 3	240	Cellulose	Pleated (Folded)	N	42	189460	100/pk
3 - 5	125	Cellulose	Pleated (Folded)	N	42	69257	100/pk
3 - 5	150	Cellulose	Pleated (Folded)	N	42	69258	100/pk
3 - 5	185	Cellulose	Pleated (Folded)	N	42	69259	100/pk
8 - 12	42.5	Cellulose	Circular, Plain	N	1	50651	100/pk
8 - 12	42.5	Cellulose	Circular, Plain	N	40	52651	100/pk
8 - 12	55	Cellulose	Circular, Plain	N	1	50652	100/pk
8 - 12	55	Cellulose	Circular, Plain	N	40	52652	100/pk
8 - 12	70	Cellulose	Circular, Plain	N	1	50653	100/pk
8 - 12	70	Cellulose	Circular, Plain	N	40	52653	100/pk
8 - 12	90	Cellulose	Circular, Plain	N	1	50655	100/pk
8 - 12	90	Cellulose	Circular, Plain	N	40	52655	100/pk
8 - 12	110	Cellulose	Circular, Plain	N	1	50656	100/pk
8 - 12	110	Cellulose	Circular, Plain	N	40	52656	100/pk
8 - 12	110	Cellulose	Cone, Prefolded	N	SA 720F	2263356	500/pk
8 - 12	125	Cellulose	Circular, Plain	N	1	50657	100/pk
8 - 12	125	Cellulose	Circular, Plain	N	40	52657	100/pk
8 - 12	150	Cellulose	Circular, Plain	N	1	50658	100/pk
8 - 12	150	Cellulose	Circular, Plain	N	40	52658	100/pk
8 - 12	185	Cellulose	Circular, Plain	N	1	50659	100/pk
8 - 12	185	Cellulose	Circular, Plain	N	40	52659	100/pk

Filtration Assemblies

Filtration Assemblies

Filter, Analytical Unit, Type A

Certified for water quality work, this sterile, disposable, polystyrene filter unit contains a 47 mm, 0.45 μ m cellulose nitrate membrane for superior recovery and growth of microorganisms. It offers good chemical resistance to dilute acids, aromatic and aliphatic hydrocarbons, and conforms to American Public Health Association (APHA) and Standard Methods. Filter unit holder is available for use in multiple filtrations.

Prod. No.	Description
2656600	Filter Unit



Unit
12/pk

Filter Apparatus, OriFlo™

Designed for rapid, qualitative filtration of particulate matter from aqueous samples using a 25 mm glass fiber filter or other medium with porosity ≥ 1.0 μ m (micron). Used in Hach Method 10014 for Ultra Low Range Chlorine in Wastewater (EPA Accepted method).



Prod. No.	Description	Unit
4966000	OriFlo Filter Apparatus.	each
2676700	Glass Fiber Filter; extra thick; 1 μ m; 25 mm	100/pk
2594025	Versapor Disc Filter; 3 μ m; 25 mm	25/pk

Filtering Funnel Assembly

Three-piece reservoir, base and stem made of borosilicate glass. Ground contact flanges with clamps for leak-tight seal. Supplied with acrylic filter support plate. Additional PTFE support plate (2164200) needed for acid and neutral detergent fiber tests.



Prod. No.	Description	Unit
2164100	Funnel, 7 cm	each
2164200	PTFE Support Plate	each
2164300	Glass Fiber Filter Paper, 100/pk, 70 mm	each

Filtration Assemblies, Glass

25 mm vacuum microfiltration assembly designed to produce ultra clean filtrate from small volumes of viscous solutions, or for microbiological analysis. Prefilter size is 16 mm diameter and the approximate filter area is 2.5 cm². Unit is supplied with a 316 stainless steel support screen, PTFE support screen gasket, glass support base, 15 mL graduated funnel (5-15 mL; 1 mL increments), anodized aluminum clamp, stainless steel support, and a #5 silicone stopper. Filtering flask sold separately. See pages 342-343 for filter options.



Prod. No.	Description	Unit
2386500	Microfiltration Assembly; 25 mm	each
54653	125 mL glass filtering flask; OD sidearm = 7.9 mm (5/16")	each

Filtration Assemblies, Graduated Glass

Beaker-style funnel (500 mL) with 47 mm membrane support for filtration of aqueous samples. Fritted borosilicate glass membrane support for even filtration across surface of membrane. Funnel attaches evenly to base via aluminum clamp. Includes 2-L vacuum filtration flask.



Prod. No.	Description
234000	Glass Filtration Apparatus

Unit
each

Polysulfone Filter Holder

With 250 mL graduated receiver to eliminate need for a manifold and/or vacuum flask. For use with 47 or 50 mm filters under vacuum or pressure. Autoclavable.

Prod. No.	Description
2254400	Polysulfone Filter Holder

Unit
each

Filter Holder, Magnetic, 47 mm

Made of rugged, autoclavable polyphenylsulfone. Magnetic, no-leak seal allows one-hand operation for filter retrieval. Support screen included. Graduated funnel: 300 mL (50 mL increments). Stem fits #8 stopper (not included).



Prod. No.	Description
1352900	Magnetic Polyphenylsulfone Filter Holder

Unit
each

PALL MicroFunnel™ Manifold

Single-place vacuum manifold. Designed for use with PALL's MicroFunnel filter units (see Filtration Funnels). Aluminum body with stainless steel hose barb connection. Small footprint and height create a portable unit that is easily stored. Corrosion and chemically resistant. Autoclavable.



Prod. No.	Description
2831600	MicroFunnel single-place manifold

Unit
each

PALL Filter Funnel Manifolds

Feature 3-place filtration with independent vacuum control. Accepts 25 or 47 mm filter funnels for processing multiple samples simultaneously. Designed for efficient analysis of microbiological or particulate contamination.

Aluminum: Anodized aluminum body; chrome-plated brass valves; stainless steel drain plugs. Autoclavable.

Dimensions (D x W x H) - 6 x 16 x 6.25"

Polyurethane: High-impact polyurethane body; glass-filled polypropylene valves; nylon drain plugs. Dimensions (D x W x H) - 4 x 11 x 6"



Prod. No.	Description
2486100	Aluminum Filter Funnel Manifold
2486150	Polyurethane Filter Funnel Manifold

Unit
each
each

Finger Cot, Zetex

Protect fingers from hot surfaces. Great when gloves are too bulky for the job. Non-asbestos material.

Prod. No. **Unit**
1464702 2/pk



Flask, Digesdahl®

Specially designed flat-bottom glass flask for use with the Hach Digesdahl® Digestion Apparatus. Each flask is calibrated individually with a 100 mL (to contain) mark.

Prod. No. **Unit**
2312542 each



Flask, Distillation

Designed for use with the General Purpose Distillation Apparatus. Round bottom, 500 mL capacity. Long neck with branch and thermometer port. Neck extends 90 mm above flask body and branch extends 150 mm above flask body. Both neck and branch have 20-400 screw-thread finish. Thermometer port has 13-425 screw-thread finish.

Prod. No. **Unit**
2264649 each



Flask, Erlenmeyer

Graduated glass flask with narrow mouth and heavy-duty rim. Durable graduations indicate approx. volume.

Stopper not included—see page 375.



Prod. No.	Capacity (subdivisions)	Stopper Size	Pkg
50540	25 mL (5 mL)	0	each
50570			12
50541	50 mL (10 mL)	1	each
50571			12
50543	125 mL (25 mL)	5	each
50573			12
50546	250 mL (25 mL)	6	each
50576			12
50547	300 mL (25 mL)	6	each
50577			12
50549	500 mL (50 mL)	7	each
50579			6
50553	1000 mL (50 mL)	9	each
50583			6
50554	2000 mL (100 mL)	10	each

Flask, Erlenmeyer, Wide-Mouth

Graduated glass flask with wide mouth for easier titrations. Reinforced tops with round finish provide maximum strength. Durable graduations indicate approx. volume.

Stopper not included—see page 375.



Prod. No.	Capacity (subdivisions)	Stopper Size	Pkg
2489443	125 mL (50 mL)	6	each
2489473			12
2489446	250 mL (50 mL)	8	each
2489476			12
2489449	500 mL (100 mL)	10	each
2489479			6
2489453	1000 mL (250 mL)	11	each
2489483			6
2489454	2000 mL (600 mL)	6	each
2489484			8

Flask, Filtering, Glass

Glass filtering flask with side-arm at 90° angle. Heavy-walled with graduated capacity scale. Designed to ASTM E1406, Type II, Class I requirements. Hose connection accepts 5/16" I.D. flexible tubing.

Stopper not included—see page 380 for tubing, see page 375 for stopper.



Prod. No.	Capacity (graduation range)	Stopper Size	Pkg
54643	125 mL (50-125 mL)	5	each
54646	250 mL (75-250 mL)	6	each
54649	500 mL (150-500 mL)	7	each
54679	500 mL (150-500 mL)	7	6
54653	1000 mL (300-1000 mL)	8	each
54683	1000 mL (300-1000 mL)	8	6



Flask, Graduated Glass with Screw Cap Top

Graduated glass flask with plastic screw cap. Excellent choice for media preparation, mixing solutions, and culturing. Inert rubber liner cemented into cap and completely autoclavable. Durable graduations indicate approximate volume.

Prod. No.	Capacity (subdivisions)	Pkg	Replacement Cap (thread finish)	Pkg
2089641 2089671	50 mL (10 mL)	each 6	2166806 (24-410)	6
2089643 2089673	125 mL (25 mL)	each 6	2166806 (24-410)	6
2089646 2089676	250 mL (25 mL)	each 6	2615206 (38-430)	6
2089649 2089679	500 mL (50 mL)	each 6	2615206 (38-430)	6
2089653 2089683	1000 mL (50 mL)	each 6	2615206 (38-430)	6



Flask, Filtering, Polypropylene

Polypropylene filtering flask with side-arm at 45° angle prevents tipping. Barbed side-arm accepts 1/4-3/8" I.D. tubing for application of vacuum.

See page 380 for tubing; see page 375 for stopper.

Prod. No.	Capacity	Stopper Size	Pkg
2089949	500 mL	7	each
2089953	1000 mL	8	each



Flask, Polymethylpentene

Polymethylpentene flask with polypropylene screw cap features clarity, chemical resistance, strength, and autoclavability (Do not engage threads during cycle). Useful for titrations, preparation and storage of media.

Prod. No.	Capacity	Pkg
2089843 2089873	125 mL	each 6
2089846 2089876	250 mL	each 4
2089849 2089879	500 mL	each 4
2089853 2089883	1000 mL	each 2



Flask, Polypropylene

Polypropylene flask for general laboratory use. Rugged, excellent chemical resistance, and autoclavable.

Stopper not included—see page 375.

Prod. No.	Capacity (subdivisions)	Stopper Size	Pkg
108243 108273	125 mL	3	each 12
108246 108276	250 mL	6	each 6
108249	500 mL	7	each



Flask, Volumetric, Class A

Calibrated "To Contain" and manufactured to ASTM E438, "Glass in Laboratory Apparatus" requirements.

Stopper not included—see page 375.

Prod. No.	Capacity (tolerance)	Stopper Size	Pkg
1457438	10 mL (± 0.02 mL)	9	each
1457440 1457470	25 mL (± 0.03 mL)	9	each 6
1457441 1457471	50 mL (± 0.05 mL)	9	each 6
1457442 1457472	100 mL (± 0.08 mL)	13	each 6
1457445 1457475	200 mL (± 0.1 mL)	16	each 6
1457446 1457476	250 mL (± 0.12 mL)	16	each 6
1457449 1457479	500 mL (± 0.2 mL)	19	each 6
1457453	1000 mL (± 0.3 mL)	22	each

Flask, Volumetric, Certified Class A

Individually serialized glass flask supplied with Certificate of Graduation Accuracy and traceable to NIST Standards. Class A tolerances meet requirements of ASTM E438 and ASTM E288. Graduation ring on neck of flask.

Supplied with ground glass stopper.
See page 374 for replacement stoppers.



Prod. No.	Capacity (tolerance)	Stopper Size	Pkg
2636640	25 mL (0.03 mL)	9	each
2636641	50 mL (0.05 mL)	9	each
2636642	100 mL (0.08 mL)	13	each
2636645	200 mL (0.10)	16	each
2636646	250 mL (0.12 mL)	16	each
2636649	500 mL (0.20 mL)	19	each
2636653	1000 mL (0.30 mL)	22	each
2636654	2000 mL (0.50 mL)	27	each

Flask, Volumetric, Polymethylpentene

Durable polymethylpentene flask with polypropylene screw-top closure. Calibrated "to contain/deliver" at 20°C.



Prod. No.	Capacity (tolerance)	Pkg
2099542	100 mL (0.16 mL)	each
2099546	250 mL (0.24 mL)	each
2099549	500 mL (0.40 mL)	each
2099553	1000 mL (0.60 mL)	each

Flask, Volumetric, Polypropylene

Polypropylene flask and screw cap. Durable with excellent chemical resistance, with the same accuracy as glass. Permanent color graduation line with marking spot. Calibrated "to contain/deliver" at 20°C. The 200/203 capacity flask has dual marks useful in DO determination via Winkler Titration.



Prod. No.	Capacity (tolerance)	Pkg
1406041	50 mL (±0.10 mL)	each
1406042	100 mL (0.16 mL)	each
1406045	200/203 mL (0.20 mL)	each
1406046	250 mL (0.24 mL)	each
1406049	500 mL (0.40)	each
1406053	10000 mL (0.60 mL)	each

Floc Jar, Wagner Type

Clear plexiglass, square jar with sample delivery port for monitoring flocculation. Measures 21 x 12.7 x 12.7 cm (8.3 x 5 x 5"), with a capacity of 2 L. Suitable for use with six-unit gang Phipps & Bird or similar floc testing apparatus. Includes tubing, stopper, clamp, and 50 mL graduated beaker.



Prod. No.	Description	Unit
4117000	Floc Jar, Wagner	each
1480474	Stopper, replacement	each
2087901	Clamp	12/pk

Flow Indicator

A valuable tool in laboratories where immediate visual indication of cooling water flow or air and gas flow is needed. Highly visible, red nylon ball rotates in a circular channel during flow. Molded clear styrene. Indicator is 39 x 57 mm (1.5 x 2.2") and has two 23-mm (1") long tube-extensions to accept 6.4 to 9.5 mm (1/4 to 3/8") I.D. tubing. Indicator has arrow to show flow direction. Maximum working pressure (water): 446 kPa (50 psig). Maximum working pressure (air): 170 kPa (10 psig).



Prod. No.	Unit
2090300	each

Forceps



Flat thin blades with square ends. Nickel-plated steel; 11.4-cm (4.48") long.

Prod. No.	Unit
1453700	each

Forceps, Cross-Action Design



Stainless steel, autoclavable. Cross-action design for holding membrane without applying constant pressure.

Prod. No.	Unit
2387300	each

Forceps, Rounded Tips



Stainless steel, autoclavable. Tips are rounded to prevent damage. Easy to use because of slip-proof plastic finger grips.

Prod. No.	Unit
2141100	each



Funnel, Analytical Long Stem, Polypropylene

Standard long stem funnel meets the needs of a wide variety of applications. Mounded ribbing prevents "air lock" commonly occurring during funneling and filtrations. A steep, 58-degree cone slope makes for fast and easy flow of either liquids or small solids. Polypropylene construction is resistant to chemicals and makes this funnel fully autoclavable for sterilization.

Prod. No.	Top I.D. Filter Paper Diam.	Approx. Volume	Stem Length Stem O.D.	Unit
108367	66 mm / 110 mm	65 mL	65 mm / 7 mm	each
108368	77 mm / 125 mm	114 mL	80 mm / 7 mm	each
108370	104 mm / 185 mm	254 mL	99 mm / 9 mm	each



Funnel, Analytical Short Stem, Glass

Standard short stem funnel is ideal for a variety of lab applications. A steep, 58-degree cone slope makes for fast and easy flow of either liquids or small solids. Durable, heavy wall construction with bull-nosed rim and a smooth, fire-polished end. Highly chemical resistant and fully autoclavable.

Prod. No.	Top I.D. Filter Paper Diam.	Approx. Volume	Stem Length Stem O.D.	Unit
54950	55 mm / 90 mm	36 mL	63 mm / 8 mm	each
54967	65 mm / 110 mm	60 mL	63 mm / 8 mm	each
54968	104 mm / 185 mm	90 mL	75 mm / 8 mm	each
54970	104 mm / 185 mm	225 mL	97 mm / 9 mm	each



Funnel, Buchner, Porcelain

Durable porcelain construction is tough, inert and highly chemical resistant. Molded-in perforated filter plate. Fully autoclavable.

Prod. No.	Top I.D. Filter Paper Diam.	Approx. Volume	Height	Unit
55085	56 mm / 50-55 mm	87 mL	101 mm	each
55068	83 mm / 70 mm	186 mL	143 mm	each
55087	100 mm / 90 mm	320 mL	160 mm	each

Funnel, Buchner, Polypropylene



Light weight and durable polypropylene construction with a removable filter plate for easy cleaning, chemical resistant. Fully autoclavable. Stopper sold separately.

Prod. No.	Top I.D. Filter Paper Diam.	Approx. Volume	Stem Length Stem O.D.	Unit
2090555	59 mm / 55 mm	83 mL	45 mm / 10 mm	each
2090553	76 mm / 70 mm	186 mL	65 mm / 11 mm	each
2090556	130 mm / 110 mm	919 mL	93 mm / 22 mm	each

1-Hole Rubber Stoppers for Polypropylene Buchner Funnels

Prod. No.	Hole Diameter	Stopper Size	Fits Funnel Prod. No.	Unit
2946201	7/16"	6	2090555 or 2090553	each
2946202	7/16"	7	2090555 or 2090553	each
2946203	7/16"	8	2090555 or 2090553	each
2946101	7/8"	6	2090556	each
2946102	7/8"	7	2090556	each
2946103	7/8"	8	2090556	each



Funnel, Micro, Polypropylene

Ideal for micro work, filling burets, manometers, and small bottles. Steam autoclavable at 250°F (121°C).

Prod. No.	Top I.D.	Stem Diameter	Unit
2584335	35mm	8 mm	each



Funnel, Powder

Polypropylene funnel for easy transfer of powders into narrow-necked flasks, tubes or vials.

Prod. No.	Top I.D.	Stem O.D.	Stem Dia.	Unit
2264467	65 mm	15 mm	25 mm	each
2264472	150 mm	28 mm	30 mm	each

Funnel, Separatory — Glass Wool

Funnel, Separatory, Glass

Pear-shaped (Squibb) separatory funnel with Teflon stopcock. Clear glass body allows for easy detection of layers between immiscible liquids, all the way to the stopcock. Highly chemical resistant and fully autoclavable. High density linear polyethylene stopper with closed bottom included.



Prod. No.	Capacity	Stopcock Size	Neck Size	Unit
52043	125 mL	2	22 mm	each
52046	250 mL	4	22 mm	each
52049	500 mL	4	27 mm	each

Funnel, Separatory, Polypropylene

The most economical answer to more expensive and fragile glass funnels. Polypropylene, pear-shaped (Squibb) with TFE stopcock and polypropylene screw top closure. Translucent body allows for easy detection of layers between immiscible liquids, all the way to the stopcock. TFE stopcock and housing eliminate need for lubrication, possibility of contamination. Resist virtually all chemicals, including hydrofluoric acid. Autoclavable except for stopcock assembly, which is easily removed. Stopcock assembly may be chemically disinfected. Stem length 65 mm.



Prod. No.	Capacity	Closure Size	Unit
1406149	500 mL	43 mm	each

Funnel, Separatory, Teflon®

The most durable answer to continually replacing of fragile glass funnels. Teflon FEP body with Teflon TFE Stopcock and Tefzel ETFE Screw Closure. Break-resistant, transparent and non-stick for easy cleaning, non-wetting for complete draining, and impervious to any chemical normally used in a separatory funnel. Phase interface of even colorless liquids is visible. Can be used with mechanical shakers if a hose clamp is put over stopcock insertion area. Autoclavable except for stopcock assembly, which can be easily removed and chemically disinfected.



Prod. No.	Capacity	Closure Size	Unit
2068949	500 mL	43 mm	each

Face Shield, Polycarbonate

Fully adjustable head straps with padded brow provides comfort, while 15" wide x 8 1/2" tall polycarbonate shield provides outstanding splash protection. Shield also provides 99.9% UV protection up to 380nm. Forehead cover and ledge design prevents fluids from splashing inside the window. Removable, steam autoclavable face shield. Meets ANSI Z87+ and CSA Z94.3 standards. Some Assembly Required.



Prod. No.	Description	Unit
2928101	Polycarbonate Face Shield	each

Furnace, Muffle

Digital temperature control. Insulation made of high-purity alumina-silica with a low thermal mass. Means faster heat-up time and reduced electrical consumption. Embedded heating elements for structural strength and longer life. Perforated bench case design keeps bench top cool. Accurate percentage input control. Chamber dimensions (W x H x D), 10 x 10 x 11 cm (3.9 x 3.9 x 4.3"). Outer dimensions, 20 x 32 x 22 cm (7.9 x 12.6 x 8.7"). 1050 W. Maximum operating temperature: 1093°C.



Muffle Furnace is recommended for use in **Standard Methods 2540 B, C, D and E** to determine Total Suspended Solids.

Prod. No.	Description	Unit
1429600	120 Vac, 50/60 Hz	each
1429624	240 Vac, 50/60 Hz	each
1429610	Heating Element for 120 Vac	each
1429625	Heating Element for 240 Vac	each

Germicidal Cloth

Non-woven, disposable cloth designed for quick decontamination of laboratory surfaces. Assures proper dilution strength, product effectiveness, and standardized technique. Greater quaternary dispersal with no hazard of cross-contamination. Quick drying.



Prod. No.	Description	Unit
2463200	Germicidal Cloth	50/pk

Glass Beads

Prevent bumping while boiling liquids.

Prod. No.	Unit
259600	100/pk



Glass Wool

Pliable and easy to use. Contains no heavy metals. Low alkali content. Suitable for filtering. Comes in sheets 3 mm (0.1") thick x 250 mm (9.8") wide x 1300 mm (51.2") long.

Prod. No.	Unit
58901	0.45 kg (1 lb)/pk



Glasses, Safety — Gloves

Glasses, Safety, Uvex®



Ideal for normal to slender profiles, the side cut design provides both comfort and protection. Molded nose bridge, side shields, and brow guard. Three-position ratchet adjusts lens angle relative to face, and adjustable temples extend to comfortably fit over ear. Impact-resistant polycarbonate lens blocks 99.9% of harmful UVA and UVB radiation. Meets ANSI Z87.1-1989 and CSA Z94.3-1992 standards. Available with choice of Ultradura® hardcoat (UD) or Uvextreme® AF (XTR) antifog, antiscratch, and antistatic lens coatings.

Prod. No.	Description	Unit
2927801	Uvex Skyline with Clear Ultradura Lens	each
2927802	Uvex Skyline with Clear Uvextreme Lens	each
2927804	Uvex Skyline with Espresso Uvextreme Lens	each

Glasses, Safety, Full Wrap, Uvex®



Polycarbonate lens blocks >99.9% of harmful UVA and UVB radiation and meets stringent military V0 ballistic impact requirements (seven times the impact velocity of ANSI and CSA). Available with choice of Ultradura® Hardcoat lens coating or Uvextreme® lens coating, which provides additional antifog, antiscratch, and antistatic protection. Choice of lens tints include Clear, Espresso and Gold Mirror. Meets ANSI Z87.1-1989 and CSA Z94.3-1992 Standards.

Prod. No.	Description	Unit
2927701	Uvex Genesis with Clear Ultradura Lens	each
2927702	Uvex Genesis with Clear Uvextreme Lens	each
2927703	Uvex Genesis with Espresso Ultradura Lens	each
2927704	Uvex Genesis with Espresso Uvextreme Lens	each
2927705	Uvex Genesis with Gold Mirror Ultradura Lens	each

Glasses, Safety, Scratch-Resistant



Clear molded side shields provide full peripheral vision and protection. Impact resistant polycarbonate lens is 2mm thick and 56mm wide, with a scratch-resistant coating both inside and out. Comply with ANSI Z87.1-1989.

Prod. No.	Description	Unit
2756800	blue	each

Glasses, Safety, Standard



Clear molded side shields provide full peripheral vision and protection.

Prod. No.	Description	Unit
1842100	clear	each

Glasses, Safety, UV Protective



Protect eyes from extended or high-intensity ultraviolet energy while eliminating "blue haze" interference. Lightweight and comfortable, even over prescription glasses.

Prod. No.	Unit
2113400	each

Gloves, Autoclave



Heat-resistant up to 232°C (450°F). Use for handling hot objects from autoclave or oven. Gauntlets protect wrists and forearm. Washable.

Prod. No.	Unit
2178800	one pair

Gloves, Chemical-Resistant



High-performance, nitrile protective gloves are resistant to degradation from most chemicals. Designed for comfort with soft, cotton-flock lining to absorb perspiration. Embossed finish makes wet handling easier and safer.

Prod. No.	Size	Unit
2410102	7-7 1/2	each
2410103	8-8 1/2	each
2410104	9-9 1/2	each
2410105	10	each
2410106	11	each

Gloves, Disposable, Polyethylene

A low cost alternative for a variety of applications when gloves will be worn for a short period of time, and a high degree of dexterity is not a concern. Sold in dispenser boxes of 100 ambidextrous singlets.



Prod. No.	Size	Unit
2097100	medium	100/box
2097101	large	100/box

Gloves, Disposable, Powder Free, Latex

Standard latex examination gloves for a wide variety of applications. Sold in dispenser boxes of 100 ambidextrous singlets.



Prod. No.	Size	Unit
2590401	small	100/box
2590402	medium	100/box
2590403	large	100/box

Gloves, Disposable, Powder Free, Nitrile

Conform to hand better than most disposable gloves, yet exert less pressure—less hand fatigue and stress. 4 mil thickness.



Prod. No.	Size	Unit
2550501	small	100/box
2550502	medium	100/box
2550503	large	100/box
2550504	extra large	100/box

Gloves, Disposable, Powder Free, Nitrile with Aloe Vera

Powder Free Nitrile gloves are coated with skin-protecting aloe vera gel. Unique synthetic formulation offers superior puncture and chemical resistance. Mint green color. Odor free, non-sterile, ambidextrous. Length: 9.5 in., 5-6 mil thick.



Prod. No.	Description	Unit
2927401	Nitrile Gloves with Aloe Vera, Small	100/box
2927402	Nitrile Gloves with Aloe Vera, Medium	100/box
2927403	Nitrile Gloves with Aloe Vera, Large	100/box
2927404	Nitrile Gloves with Aloe Vera, Extra-Large	100/box

Goggles, Safety, Standard



Indirect ventilation system to allow free air flow through the goggle body. Large, soft body ensures an excellent fit over most prescription eyewear. Clear polycarbonate lens treated with patented Uvextreme® AF coating—protects against fogging, scratching, static and dust, and 99% of harmful ultraviolet rays up to 385nm. Absorbs 99.9% of UV up to 385nm and meet ANSI Z87+ and CSA Z94.3

Prod. No.	Unit
2927902	each

Goggles, Safety, Splash-Resistant



Full wrap design provides splash protection and allows for excellent peripheral vision. Lightweight body molds to the face for a firm seal with comfortable protection. Large size accommodates most prescription eyewear, yet adapts for use with respirators or hard hats without impeding fit. Indirect venting protects eye area against hazardous splashes and airborne particles while allowing ample air circulation for comfort. Clear polycarbonate lens treated with Uvextreme® AF coating—protects against fogging, scratching, static and dust. Absorbs 99.9% of UV up to 385nm and meet ANSI Z87+ and CSA Z94.3

Prod. No.	Unit
2927901	each

Goggles, Safety, Vented



Ply-able PVC construction means a snug, comfortable fit, even over prescription eyewear. Clear, optical-grade polycarbonate lens has a spherical design for a 160° field of vision. Choose standard lens or FogGard Plus lens, which reduces fogging in humid environments. Ultra clear lenses and blue tinted frames. Meets ANSI Z87.1 + Impact Standards.

Prod. No.	Description	Unit
2928001	Standard Lens Allsafe Goggles	each
2928002	FogGard Plus Lens Allsafe Goggles	each

Goggles, Safety — Handbooks



Goggles, Safety, Vented

Vented indirectly for splash protection. Polycarbonate fog-free lens with superior impact protection; wide field of vision. Full face flange for comfortable wear, even over prescription glasses.

Prod. No.
2550700 **Unit**
each

Goggles, Safety, Vented, Vinyl

Soft, clear, flexible vinyl. Can be worn over regular eyeglasses. Acetate lenses with side vents. Adjustable elastic head band.

Prod. No.
2097200 **Unit**
each



Grinder, Mini

Grinds dried samples to homogeneous powder for more accurate analyses. Holds approximately 120 cc (7 cubic inches) of sample. Unit seals for dust-proof operation. Used for preparation of coal, soil, feeds, and other samples. Outer dimensions (H x D), 16.5 x 9.5 cm (6.5 x 3.7"). 120 Vac.

Prod. No.
2099100 **Unit**
each

*Replacement blades not available from Hach.



Hand Protector

A unique silicone rubber hand protector for gripping hot beakers, flasks and other objects safely. Withstands temperatures up to 260°C (500°F). Also can be used for work with cold objects; retains its flexibility down to -57°C (-70°F).

Prod. No.
2164400 **Unit**
each



Handbook, Guide to Chemical Hazards, NIOSH

Comprehensive guide uses a convenient tabular format to present key industrial hygiene and medical surveillance information on 397 chemicals and compounds. Topics: Chemical and physical properties, Permissible Exposure Limits (PEL), Immediately Dangerous to Life or Health (IDLH) levels, health hazards and chemical incompatibilities, personal protection recommendations and first aid procedures. Updated every four years.

Prod. No.
2239800 **Unit**
each



Handbook, Microbiology of Well Biofouling

A useful reference guide written with a direct, straight forward approach based upon the advances in the technology over the last twenty years. With this guide, you will understand the phenomena of biofouling, corrosivity, biodegradation, and shifts in hydraulic transmissivity that can be linked to microbial events. Practical approaches to the evaluation of these effects are introduced, including standard and novel methodologies.

See what's new in the new edition:

- Selectable weight units: grams & ounces
- Deleterious events in all types of wells in greater detail
- Generation of mass which interferes with the physical functioning of a well
- Major innovations in the field
- Includes more field applicable material
- Completely revised and updated

Prod. No.
2617800 **Unit**
each

Handbook, Standard Methods for the Examination of Water and Wastewater

The worldwide standard text for water analysis since 1905. The text provides hundreds of EPA-approved laboratory tests of water quality and properties.

These methods represent the best current practice of water and wastewater analysis. Includes hundreds of tables, figures, and color plates of aquatic organisms. Copublished by American Public Health Association, Water Environment Federation, and American Water Works Association.

Prod. No.
2270800 **Unit**
each



Handbook, Wastewater Organisms: A Color Atlas

Contains 210 high-quality full-color micrographs to help you identify organisms found in sewage and sludge. These photos provide the maximum level of detail and will help you better understand the form and dimension of the organisms. Subjects depicted in the micrographs include bacteria, eggs, amoeba, parasitic protozoa, tardigrada (water bears), rotifers, ciliates, parasitic helminths, pollen grain, free-living nematodes,

algae, flagellates, and more. The chapter on enumeration provides literature and techniques for fixing and staining, techniques often required for identification to the species level. Also contains a valuable glossary and index to make the book even easier to use.

Prod. No.
2615800 **Unit**
each



Hand Soap, Antibacterial

Effective against a wide variety of gram-negative and gram-positive bacteria, as well as yeast and fungi.

Prod. No.	Unit
2617700	each



Hat, Hach Logo

Hach caps, great for warm-weather wear, cotton fabric.

Prod. No.	Unit
2489625	each

Hot Plate, Compact



Compact and lightweight, with a top-plate diameter of 10.1 cm (4") and total weight of 0.7 kg (1.5 lb). Machined cast-aluminum top provides uniform heat distribution. Variable control temperature to 371°C (700°F) maximum. Maximum operating temperature, reached in approximately five minutes. Three-wire, chemically resistant cord. Dimensions: (H x D), 8.3 x 10.1 cm (3.2 x 4"). 300 W.

Prod. No.	Description	Unit
1206701	120 Vac, 50/60 Hz	each
1206702	240 Vac, 50/60 Hz	each

Heater, Stirrer

Accommodates 500 mL round or flat-bottom flask. Motor with speed regulator controls stirring speed either separately or simultaneously with heat controller. Stirs and heats to 450°C. With PTFE-coated stir bar and support bracket for 13 mm (0.5") rod. Suitable for use with Hach distillation setup.



Prod. No.	Description	Unit
2273700	115 Vac, 60 Hz	each
2273702	230 Vac, 50 Hz	each

Hot Plate, Stirrer

Easy-to-read digital temperature settings features a flashing warning (CAUTION! HOT TOP) when the surface exceeds 50°C. Stirring range of 60-1200 RPM. Low-profile design to improve safety. Reflective, white ceramic top is smooth, seamless and resistant to alkali/acid solutions. Detachable cord. Built-in support rod holder (order separately). Operating temperature range: 5 to 540°C (41 to 1004°F).



Prod. No.	Ceramic Top Dimensions	Electrical Specifications Volts/Amps/Watts	Unit
2881600	7.25 x 7.25" (18.4 x 18.4 cm)	120 / 8.9 / 1070	each
2881602	7.25 x 7.25" (18.4 x 18.4 cm)	220-240 / 4.9 / 1170 CE Marked	each



Hot Plate

Easy-to-read digital temperature settings features a flashing warning (CAUTION! HOT TOP) when the surface exceeds 50°C. Low-profile design to improve safety. Reflective, white ceramic top is smooth, seamless and resistant to alkali/acid solutions. Detachable cord. Built-in support rod holder (order support rod separately). Operating temperature range: 5 to 540°C (41 to 1004°F).

Prod. No.	Ceramic Top Dimensions	Electrical Specifications Volts/Amps/Watts	Unit
2881400	4.25 x 4.25" (10.8 x 10.8 cm)	120 / 3.2 / 385	each
2881500	7.25 x 7.25" (18.4 x 18.4 cm)	120 / 8.8 / 1060	each
2881502	7.25 x 7.25" (18.4 x 18.4 cm)	220-240 / 4.8 / 1150 CE Marked	each
2705900	0.5" (1.3 cm) diameter support rod		each

Hot Plate/Stirrer, Explosion Proof

The Thermolyne SAFE-T SHP9 Explosion-Proof Stirring Hot Plate was designed for Class I, Group C or D Hazardous Atmospheres where flammable gases or vapors are present. Over temperature safety control cuts power to the unit if top plate temperature exceeds 246°C. Stirring speeds from 50 to 1200 RPM. Precise, electronic stirring speed control accurate to ± 3 RPM. Operating temperature range of the SAFE-T SHP9 is 38 to 220°C (100 to 428°F). All units include a built-in 0.5" (1.3 cm) conduit and 18" (45.7 cm) lead wires for UL required permanent electrical hook-up.



Prod. No.	Unit
2705800	each

Humidity Monitor — Incubators



Humidity/Temperature Monitor

Simultaneously monitors both temperature and humidity on a large 3/4" digital display. For desiccators, incubators, refrigerators, fume hoods, labs, stock rooms, clean rooms, chemical storage areas, warehouses, factories, and greenhouses. Recalls min./max. temperature and min./max. humidity readings over any time period. Stand or wall mount. Comes with 2 AAA batteries which last a full year. Temperature range: 0 to 50°C and

(32 to 122°F) in 1°C or 1°F resolution with accuracy of $\pm 1^\circ\text{C}$, 2°F (at 32 to 104°F). Humidity range: 25% to 95% RH in 1 % RH resolution with accuracy of $\pm 5\%$ RH (at 59 to 104°F). Dimensions: 3 3/4" x 2.5 x 1/2". Weight: 2.8 oz.

<u>Prod. No.</u>	<u>Unit</u>
2694400	each

Hydrometer, Glass

For measuring the specific gravity of heavy liquids. Approximate length, 150 mm (6"). Single scale, 1.000 to 1.225 specific gravity with 0.005 divisions. 100 mL graduated cylinder sold separately.



<u>Prod. No.</u>	<u>Description</u>
192200	Glass Hydrometer
50842	Graduated Cylinder, 100 mL

Unit
each
each

Incubator, BOD

Hach's compact Model 205 BOD incubator exceeds the incubation criteria for biochemical oxygen demand (BOD) analysis, and easily fits under standard lab benches. Digital temperature display with high-limit warning light.

Capacity:
58 standard, 300 mL
BOD bottles (4.0 ft³)
Temperature Range: 0-40°C
(Accuracy: $\pm 0.5^\circ\text{C}$ @ 20°C)
External Dimensions:
16 x 15.5 x 29.5" (W x D x H)



<u>Prod. No.</u>	<u>Description</u>	<u>Unit</u>
2616200	Model 205 BOD Incubator, 110 Vac; 60 Hz	each
2616202	Model 205 BOD Incubator, 220/240 Vac; 50/60 Hz	each
2943100	Disposable 300 mL BOD Bottles	each

Incubator, Culture

Hach's Low-Profile Culture Model 153 Incubator exceeds performance criteria for Standard Methods/EPA/ASTM microbiological methods with an accuracy of $\pm 0.1^\circ\text{C}$ @ 37°C. Five heating elements minimize "hot spots" and contribute to a uniformity of $\pm 0.25^\circ\text{C}$ @ 37°C. Features a High Limit Thermostat and Warning Light to guard against overheating during use, stainless steel interior and shelves (2), and maintenance free heating system. Capacity: 6.67 ft³ Temperature Range: Ambient 5 to 70°C (Accuracy: $\pm 0.1^\circ\text{C}$ @ 20°C) External Dimensions (W x D x H): 76.2 x 76.2 x 81.3 cm (30 x 30 x 32")



<u>Prod. No.</u>	<u>Description</u>	<u>Unit</u>
2619200	Model 153 Low-Profile Culture Incubator 110/120 Vac, 50/60 Hz	each
2619202	Model 153 Low-Profile Culture Incubator 220/240 Vac, 50/60 Hz	each

Incubator, Culture, Portable

Field-ready unit can be used with a variety of power sources for reliable, accurate incubation. Operating range: 30 to 50°C. Accuracy: 0.5°C @ 37°C. **Power Source:** 12 Vdc via vehicle cigarette lighter socket connection. Other Power Source options include 12 Vdc rechargeable battery (12 hours of operation @ 37°C @ 20-25°C ambient) and 115/230 Vac Battery Eliminator. **Capacity:** 6 P/A bottles or 39 MPN tubes or 42 50 mm Petri dishes. External Dimensions: 30.5 x 30.5 x 25.4 cm (12 x 12 x 10"). Temperature Range: Ambient 5 to 70°C (Accuracy: $\pm 0.1^\circ\text{C}$ @ 20°C).



<u>Prod. No.</u>	<u>Description</u>	<u>Unit</u>
2569900	Portable Incubator	each
Power Supplies		
2580300	Rechargeable 12 VDC battery (incl 115 Vac charger and carrying case)	each
2580400	Battery Eliminator; 115/230 Vac	each
2580301	Rechargeable 12 Vdc battery, only	each
2595902	230 Vac Recharger Adapter (Use with Prod. No. 2580300)	each
Racks		
2580500	P/A Bottle Rack (6 bottles; Stainless Steel)	each
2580501	MPN Tube Rack (39 tubes; Stainless Steel)	each
2580502	Petri Dish Rack (42 50-mm Petri Dishes; Stainless Steel)	each

Incubator, Dri-Bath

Excellent for microbiology analysis with the Most Probable Number format. Working temperature range of ambient 5 to 110°C ($\pm 0.5^\circ\text{C}$). Blocks are machined aluminum with 12 wells (20 mm diam.), and have a thermometer well for temperature monitoring.



Prod. No.	Description	Unit
2281400	Single Block Incubator (Block Included); 120 Vac, 50/60 Hz	each
2281402	Single Block Incubator (Block Included); 240 Vac, 50/60 Hz	each
2281700	Dri-bath Incubator Block; 12 well; 20 mm diam	each

Incubator, Water Bath

Hach's Model 26 PC Water Bath Incubator provides accuracy and dependability for research and quality control applications. Double-walled polymer-coated stainless steel reservoir eliminates hot spots and minimizes corrosion (Do not use RO/DI/distilled water). Recessed heating element eliminates prevents burnout. Centrifugal pump provides strong circulation with low turbidity. Gable Included. Capacity: 22.1 liters
Operating Range: Ambient 5 to 70°C; to 100°C when covered (Uniformity $\pm 0.1^\circ\text{C}$ @ 37°C)
External Dimensions (W x D x H): 35.6 x 72.4 x 24.1 cm (14 x 28.5 x 9.5")



Prod. No.	Description	Unit
2616300	Model 26PC Water Bath Incubator; 110/120 Vac 50/60 Hz	each
2616302	Model 26PC Water Bath Incubator; 220/240 Vac, 50/60 Hz	each
2621500	Gable Cover for Model 26PC Incubator	each

Jack, Laboratory, Platform

Loading platform, 15 x 15 cm (6 x 6"). Lifts 15 kg (33 lb) to a 28 cm (11") height max. Suitable for use with Hach Distillation Apparatus (See page 98).

Prod. No.	Unit
2489625	each



Laboratory Coat

White twill fabric. Three pockets. Knee length with button closure.

Prod. No.	Chest Size
2241634	34
2241638	38
2241642	42
2241646	46
2241648	48
2241650	50



Lamp, UV for Field or Lab

Shortwave (254 nm) UV lamps for field or laboratory use. Either amp can be used in the lab with power supply while Portable Field Pack can only be used with the 1.75" lamp. Portable Field Pack requires a 9-Volt battery (not included) and has a belt clip for easy traveling. Both lamps are physical identical except for bulb and cord length (these are shorter in the 1.75" version).
NOTE: Not for use in microbiological applications.



Prod. No.	Description	Unit
2670600	Portable Field Pack Power Supply	each
2670700	Power Supply, 115 Vac, 60 Hz	each
2670702	Power Supply, 220 Vac, 50 Hz	each
2670800	UV Lamp, Shortwave, 254 nm, 1.75" bulb	each
2671000	UV Lamp, Shortwave, 254 nm, 2.125" bulb	each
2704500	Lamp Kit, 115 Vac, 60 Hz (includes 1 each of 2670700, 2671000)	each
2704502	Lamp Kit, 230 Vac, 50 Hz (includes 1 each of 2670702, 2671000)	each

Lamp, UV, Long-Wave

Mid-size (6 Watt) high intensity, hand-held and line-operated. Intensity at 15.2 cm (6"), 750 $\mu\text{W}/\text{cm}^2$. Filters: Two 6 x 7.6 cm (2.4 x 3") in snap on/off frame. Overall dimensions: 37.5 x 8.9 x 6.7 cm (14.8 x 3.5 x 2.6"). Weight: 0.91 kg (2 lbs). UL listed. Meets existing OSHA electrical standards. 365 nm.



Prod. No.	Description	Unit
2184300	115 Vac, 60 Hz	each
2184302	230 Vac, 50 Hz, does not come with plug	each
2184311	Replacement bulb	each

Lamp, UV, Portable

Hand-held, battery-operated, long-wave UV lamp 365 nm. Uses four AA batteries not included (For Microbiology Applications). 4 W.
Note: Not for digestion.



Prod. No.	Description	Unit
2415200	Lamp	each
2584600	Replacement tube	each

Loop, Inoculating — Microscopes

Loop, Inoculating, Disposable



Sterile, disposable, inoculating loops, packaged in zip-lock bags. Polystyrene.

Prod. No.	Description	Unit
2749025	1 µL	25/pk
2749125	10 µL	25/pk

Loop, Inoculating, Wire



3" nichrome V wire, 25 gauge (0.018") with 3-mm diameter loop.

Prod. No.	Unit
2112100	each

Magnifiers, Illuminated

10x magnifier features an 8D diopter, built-in mini bulb and lightweight metal body housing. 3X features shatterproof, bifocal, optical-grade acrylic lens, built-in mini bulb, and lightweight plastic housing. 10X magnifier uses 2 AA batteries, while 3X magnifier uses 2 AAA batteries.



Prod. No.	Description	Lens Diameter
2585300	Magnifier, 10X	1.98 cm (0.78")
2585400	Magnifier, 3X	5.08 cm (2")

Microscopes, Compound, Leica® CM E

Leica CM E Microscopes provide superior image quality, durability, and a practical design that truly meets your needs. All CM E models include a 120V, 20W Tungsten-Halogen Illuminator, mechanical stage, 1.25 na Abbe Condenser, blue filter, coarse and fine drive, 4-hole fixed nosepiece, 4x, 10x, 40x and 100x objectives with Immersion Oil, Binocular Tube, 2 E2 10x/18mm Eyepieces, one with pointer and Eyeguards, spare 12W lamp and dust cover. Phase Contrast model also features a Green Filter and a Phase Contrast Slider Kit.



Prod. No.	Description	Unit
2942500	CM E with Achromatic Objectives	each
2945000	CM E with Plan Achromatic Objectives	each
2946000	CM E with Phase Contrast Objectives	each

Microscopes, Stereo, Leica® E-Series

Renowned for quality, the E-Series microscopes are affordable, rugged and dependable. All models feature plug and play design, no removable parts, "tool free" tension adjustment, 100 mm working distance, Leica exclusive 50-75 mm Interpupillary distance, student-proof design, built-in 25,000 hour 6500 K, sealed stage plate, true daylight, constant-color temperature power LED illumination for BOTH reflected and transmitted light, built-in universal stabilizing power supply 100-240V and dust cover



ES2 Model Shown

From the rugged ES2 model to the digital EZ4 D, the E-Series has a microscope to meet your needs.

Leica ES2

Includes 10x eyepieces, 2-step Stereo Microscope with 10x and 30x magnifications and 10x/20 mm high eyepoint. Features side-mounted separate power switches for separate or simultaneous use of reflected and transmitted light.

Prod. No.	Description	Unit
2942600	ES2 Stereomicroscope	each

Leica EZ4 with 10x Eyepiece

Includes 10x eyepieces, 4.4:1 Zoom Stereo Microscope with 8x – 35x zoom range and 10x/20 mm high eyepoint. Features include the Leica exclusive 3 directional reflected illumination, auto-shutoff after 60 minutes and a sealed light control panel.

Prod. No.	Description	Unit
2942700	EZ4 Stereomicroscope w/10x eyepiece	each

Leica EZ4 with 16x Eyepiece

Includes 16x eyepieces, 4.4:1 Zoom Stereo Microscope with 12.8x – 56x zoom range and 16x/15 mm high eyepoint. Features include the Leica exclusive 3 directional reflected illumination, auto-shutoff after 60 minutes and a sealed light control panel.

Prod. No.	Description	Unit
2942800	EZ4 Stereomicroscope w/16x eyepiece	each

Leica EZ4 D with Built-in Digital Camera

Includes 10x eyepieces, 4.4:1 Zoom Stereo Microscope with built-in 3 MPixel digital camera and 8x – 35x zoom range, and 10x/20 mm high eyepoint. Also includes Leica LAS EZ software (for PC) for image capture and simple measuring and annotation applications, built-in Secure Digital card slot (card included) for image capture without the need of a computer, live composite analog video output (selectable PAL or NTSC) and USB 2.0 output.

Features include the Leica exclusive 3 directional reflected illumination, auto-shutoff after 60 minutes and a sealed light control panel.

Prod. No.	Description	Unit
2942900	EZ4 D Stereomicroscope w/Camera	each

Microscope Slide Warmer



Temperature range: ambient to 60°C. Capacity: fifty-six 1 x 3 in. (25 x 76 mm) or twenty-four 2 x 3 in. (50 x 76mm) slides. Coated with black Teflon® fluorocarbon resin to resist corrosion and provide high-contrast background for viewing slides. See-through cover lets you note progress of slides without interrupting heating. Cover also vented to prevent fogging, tilts back for access and lifts off for easy cleaning. Clearance between cover and deck is 1/2 in. (13mm). Graduated dial thermometer is mounted on front panel instead of warming surface. Provides more usable surface area, eliminates problem of contaminant buildup on and around thermometer. Usable heated area is 6-1/2 x 23-1/2 in. (17 x 60cm). Heats from ambient to 40 to 45°C (104 to 113°F) range (commonly used for nonadhesive mounting of sections) in just 15 minutes, and to 54°C (129°F) for dehydrating. Setting adhesives takes 20 minutes. Temperature constancy, ±3°C (±5.4°F). Uniformity, ±2°C (±3.6°F). CSA approved.

Prod. No.	Unit
2738500	each

Microscopy Supplies

Prod. No.	Description	Unit
2387500	Immersion Oil: Type DF (Low fluorescence), 1.25 oz bottle w/dropper	each
1170300	Microscope Slides: 72/box, plain, precleaned, 25 x 75 x 1.0 mm	each
2387400	#1 Glass Cover Slips: 124/pk, 25 x 25 mm	each

Mortar and Pestle

Porcelain. Mortar has spout and is glazed outside. Pestle glazed to grinding surface. Coors.



Prod. No.	Description	Unit
1225400	Mortar, 65 mL capacity, 53 mm H x 80 mm O.D.	each
1225500	Pestle, 130 mm L	each

Needle, Inoculating Wire



Nickel-chromium, three-inch wire attached to aluminum handle.

Prod. No.	Description	Unit
2177900	Innoculating Wire	each
2748925	Needle	25/pk

Notebook, Field

Treated polyethylene PolyPaper pages are washable and dry flat—have excellent resistance to chemicals. Virtually all pens and pencils may be used. Pages, measuring 23.5 x 28.6 cm (9.2 x 11.2"), have 6 mm grid markings and are bound with rust-proof staples. Blue polyethylene cover makes this notebook completely waterproof. Salt water, mud, chemicals, all kinds of dirt cause no damage. Pages can be written on when wet, even under water, with No. 2 pencil. 96 numbered pages.



Prod. No.	Unit
2091800	each

Notebook, Laboratory

Keep valuable notes and data safe in this hard-cover, case-bound notebook. PolyPaper pages are chemical- and tear-resistant, spunbonded polyethylene, measure 23.5 x 28.6 cm (9.2 x 11.2"). Ball-point pens may be used. Contains 108 pages, 100 of which are marked with 6 mm grid lines. Remaining pages are marked for indexing or left blank for user's notes. Contains instructions for keeping a scientific notebook.



Prod. No.	Unit
2091900	each

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Oil & Grease Systems — Ovens

Oil and Grease Systems, SPE, Xenosep®

Xenosep Solid-Phase Extraction (SPE) Systems offer the easiest and most cost effective way to test for Oil and Grease using EPA Method 1664A. Fast, in-house results enable you to maintain control over your plant discharges in real time without the complications of the hexane LLE procedure. Xenosep SPE filters feature a unique triple layer that prevents premature clogging and flows 10 times faster than typical SPE filters.



It is now possible to easily achieve reliable, consistent Oil and Grease results and decrease your sample turnaround time. A free training video on CD is included with each Starter Kit to show your lab how to perform EPA Method 1664A by SPE. For more information on Xenosep SPE Systems, visit our website at www.hach.com/xenosep.

Xenosep SPE Systems are available in convenient kits which include the components for 24 tests and all the glassware required to process them, one at a time. Replacement components are also available.

Prod. No.	Description	Unit
2943231	Xenosep SPE Systems Starter Kit	each

Select Replacement Components (others available upon request)

Prod. No.	Description	Unit
2943800	Xenosep SPE Consumables Kit (includes 24 each 2943300, 2943400 and 2943500)	each
2943300	SPE Filters, 1664A, 47 mm	48/pk
2943400	Pipets, Transfer, Polyethylene, 15 mL	48/pk
2943500	Inline Column with Sodium Sulfate, 10g	48/pk
2943600	Glass Wool Fibers 50 g	each
2943701	EPA 1664A Standard, 1x30 mL, 4mg/mL	each
2943702	EPA 1664A Standard, 1x10 mL, 4mg/mL	each
2943226	Aluminum Pans, 105 mm	100/pk
2943227	Hi-Loft GFM Prefilters, 42 mm	48/pk

Be sure to see our complete Sample Preparation Section, pages 95-100.

ORP Tester



Offers an accurate and affordable way of testing for redox potential, with a range of ± 999 mV. Because there are no chemical test kits or litmus paper for measuring this parameter, the ORP Pocket Pal™ Tester is a valuable tool, assuring accuracy, fast response, and excellent repeatability.

Prod. No.	Description	Unit
2727300	ORP Tester	each
2612520	OPR Standard Solution	each

Oven, General Purpose



General purpose ovens for drying, sterilizing, baking, annealing, conditioning, evaporating, dehydrating. Medium Gravity Oven provides fast, microprocessor-controlled drying. Has adjustable exhaust port for venting, independent safety controller, stainless steel interior, digital temperature display, circuit breaker, and two stainless steel

shelves. Temperature range: 5°C above ambient to 250°C $\pm 1.5^\circ\text{C}$. External dimensions: 26.5 x 23 x 31.75". ID (18.50 x 19 x 16.50").

Prod. No.	Description	Unit
2615500	Medium Gravity Oven, 110 Vac, 50/60 Hz	each
2615505	Stainless steel shelf (optional)	each

Oven, Laboratory



For drying, baking, annealing, conditioning, sterilizing, evaporating, and dehydrating. Factory-tested. Sturdy welded steel construction. Ample insulation. Two nickel-plated shelves adjustable at 12.7 mm (0.5") increments.

Thermostatically controlled with damper-controlled, gravity convection air circulation. Red pilot light indicates heater action. Gray-green, hammerloid, baked enamel finish. Three-wire cord and plug standard. Inside dimensions: 30w x 25d x 25h cm (11.8 x 9.8 x 9.8"). Outer dimensions: (19h x 14w x 12d"). Temperature range is ambient to 200°C Control is $\pm 1.5^\circ\text{C}$.

Cannot be shipped to CA, CT ME, MI, MN, NJ, RI, VT.

Prod. No.	Description	Unit
1428900	120 Vac, 60 Hz	each
1428902	240 Vac, 50 Hz	each
56602	Thermometer, 16" (-10 to 200°C)	each

Pad, Cooling

Protects counter tops from scorches and burns. 10 x 10 cm (4 x 4"). Thickness, 6 mm (0.24") thick.

Prod. No.	Unit
1837600	each



Parafilm M Laboratory Film

Seals labware quickly, effectively. Film prevents sample evaporation and contamination; protects anhydrous materials. Can be folded repeatedly and twisted around sharp surfaces without rupturing. Stretched lengthwise at 21°C (71°F), Parafilm M increases approximately 200%. Becomes more flexible, softer, stronger as temperature increases. Resistant to alcohol, medium-concentration acid, and alkalis. Width: 10 cm (4"); 38-m (125') roll.

Prod. No.	Unit
251764	each



Pen, Laboratory

Use this felt-tip pen for permanent marking with black ink on glass and plastic items. Ink dries quickly. Markings on glass or plastic are not affected by repeated autoclaving.

Prod. No.	Unit
2092000	each



pH Paper

Provides simple, fast, economical method of pH measurement. Sharp color change for each 0.5 pH unit. Can be used with handy dispenser (Product No. 2611000). Convenient for sample pH adjustments. Recommended for sewage water, not finished water. Five 4.6-meter (15') rolls per package.

Prod. No.	Description	Unit
37333	3.0-5.5 pH range	each
37633	4.5-7.5	each
37933	6.0-8.0	each
38033	6.8-8.4	each
38533	9.0-12.0	each
39133	1.0-11.0	each
2601300	0-14 units, 100/pack. EM Science.	each
2611000	pH Paper Dispenser	each



pH Tester



pH Testers are the perfect tool for quick, routine pH testing. Replaceable electrodes let you reuse the Tester body many times over, which saves you money. Both testers are certifiable to IP67 standards, and feature Automatic Temperature Compensation (ATC), push-button three-point calibration and auto buffer recognition. Double Junction Tester features unique double junction electrode design and increased reference gel volume to give you significantly longer electrode life, especially in harsh applications. See pages 50-51 for Buffers required for calibration.

Prod. No.	Description	Unit
2723500	pH Tester	each
2799300	Double Junction pH Tester	each
2723501	Replacement electrode – pH Tester	each
2799301	Replacement electrode – Dbl. Junction pH Tester	each
2749800	Replacement batteries	6/pk

Pipet Aids

Pipet Controller, Brinkmann

Features one handed operation to aspirate/dispense with most pipets from 0.1-100 mL. Added safety from contamination with in-line filter (changeable).



Prod. No.	Description	Unit
2489200	Brinkmann Pipet Helper	each
2489300	Replacement Filters	10/pk

Pipet Controller, Portable, Automatic

Lightweight, compact unit with two-button operation (aspirate/dispense) for efficient liquid handling. Full charge provides up to two hours operation (2000 aspirate/dispense cycles). Fast recharge and can be operated with charger connected. Fits most pipets from 1-100 mL. Pipet Aid comes with recharger and replacement filters. UL and CSA approved.



Prod. No.	Description	Unit
2551701	Automatic Pipet Aid w/110 Vac recharger	each
2551736	Replacement filters	5/pk

Pipet Controller, Powerpette Plus

Lightweight, rechargeable pipet controller offers finger tip control in an easy-to-hold pistol grip shape. Eight-hours of use on a single charge and can be charged while in use. Programmed with three aspirate & dispense modes (including gravity dispense for "to deliver" pipets). Low battery warning light. Suitable for most pipets from 1.0-100 mL. Complete set includes rechargeable nickel metal hydride battery. AC adapter, autoclavable pipet stand, three hydrophobic filters (two 0.45 µm; one 0.2 µm), and instruction manual. CE marked.



Prod. No.	Description	Unit
2799500	Powerpette Plus Pipet Controller	each
2799401	Replacement 0.45 µm filters	5/pk
2799403	Replacement pipet holder (nose cone); silicone	each

Pipets Aids continued on next page.

Pipet Aids — Pipets

Pipet Aids (continued)



Pipet Controller, Safetypetter

Simple, controllable pipet filler provides easy aspiration and dispensation at variable speeds. Fits most 1-100 mL pipets. Includes a built-in filter for contamination control (can be replaced).

Prod. No.	Description	Unit
2799400	Safetypetter Pipet Filler	each
2799401	Replacement Filters (0.45 µm)	5/pk
2799403	Replacement Pipet Holder; silicon	each



Pipet Filler, Safety

Easy "1-2-3" operation. Squeeze the "1" valve to discharge air in top bulb. Squeeze valve "2" to draw up sample. Squeeze valve "3" to dispense. Fits all standard-sized pipets. Durable silicone with glass ball valves for long life. Meets OSHA requirements.

Prod. No.	Description	Unit
1218900	3-Valve Safety Pipet Filler	each

Pipet Filler, Safety Bulb

Unique cone adapter allows universal pipet filling. Squeeze bulb to charge for filling and place cone adapter onto pipet in sample. Release the bulb to fill. Remove bulb and cover pipet end with finger for dispensing. Easy and safe.



Prod. No.	Description	Unit
1465100	Safety Bulb Pipet Filler	each

Pipet Filler, Small Volume

Dropper bulb slips over the end of Pasteur and other small volume pipets (approximately 1 mL). Latex.



Prod. No.	Description	Unit
2676800	Dropper Bulb Pipet Filler	12/pk

Pipets



Fixed Volume, Micropipette

Micropipette features a two-stage plunger dispenser, which ensures high accuracy and precision in pipetting techniques and facilitates last drop dispensing. Unique tip cone accepts both micro and ultra micro pipet tips. Each micropipette is fully autoclavable and color-coded for easy identification. Includes one pipet tip. Additional pipet tips sold separately.

Prod. No.	Capacity	Accuracy	Unit
2946001	5 µL	1.5%	each
2946002	10 µL	1.0%	each
2946003	20 µL	0.5%	each
2946004	25 µL	0.5%	each
2946005	50 µL	0.4%	each
2946006	100 µL	0.3%	each
2946007	200 µL	0.5%	each
2946008	250 µL	0.5%	each
2946009	500 µL	0.5%	each
2946010	1000 µL	0.5%	each

Pipet Tips for Micropipette

Disposable polypropylene pipet tips.

Prod. No.	Description	Unit
2948700	5 to 200 µL Tips	1000/pk
2511900	250 to 1000 µL Tips	1000/pk

Fixed Volume Pipet



Simple, controllable pipet filler provides easy aspiration and dispensation at variable speeds. Fits most 1-100 mL pipets. Includes a built-in filter for contamination control (can be replaced).

Prod. No.	Description	Unit
2275300	100 µL Fixed Volume Pipet	each
2275400	Pipet Tips for 100 µL Pipet	1000/pk

Pipets continued on next page.

Pipets (continued)

Mohr (Measuring) Pipet, Glass



Class B pipets calibrated "To Deliver". Permanent brown, graduated scale fused into body. Color coded for volume. Tips hardened for durability. Designed from ASTM E1293, Class B Style 1 requirements.

Prod. No.	Capacity (mL)	Graduations (mL)	Tolerance (mL)	Color Code	Unit
2093400	0.1	0.01	±0.005	White	each
2093500	0.2	0.01	±0.008	Yellow	each
2093635	1.0	0.01	±0.02	Red	each
2093636	2.0	0.1	±0.02	Green	each
2093437	5.0	0.1	±0.04	Blue	each
2093438	10.0	0.1	±0.06	Orange	each
2093440	25.0	0.1	±0.1	White	each

Mohr (Measuring) Pipet, Polypropylene



Graduated, translucent polypropylene pipets. Ideal for silica analysis. Autoclavable (Temperatures above 60°C can cause changes to volumes).

Prod. No.	Capacity (mL)	Graduations (mL)	Tolerance (mL)	Unit
210635	1	0.1	± 0.02	each
210665				12/pk
210637	5	0.1	± 0.04	each
210667				12/pk
210638	10	0.1	± 0.06	each
210668				12/pk

Pasteur Disposable Pipet



Borosilicate glass. Uniquely designed to prevent cotton plug from slipping into body. Tips held to close diameter tolerances. Supplied in boxes of 200.

Prod. No.	Length	Unit
2123400	146 mm	200/box
2123401	229 mm	200/box

Serological Pipet, Glass



Graduated glass pipets. Calibrated "To Deliver". Designed to ASTM E1044 specifications.

Prod. No.	Capacity (mL)	Graduations (mL)	Tolerance (mL)	Unit
919002	1	0.01	0.02	each
53236	2	0.1	0.02	each
53237	5	0.1	0.04	each
53238	10	0.1	0.06	each
206640	25	0.1	±0.2	each
206670				12/pk

Serological Pipet, Short, Glass



Glass serological pipet with shorter length. Calibrated "To Deliver/Blow Out".

Prod. No.	Capacity (mL)	Graduations (mL)	Tolerance (mL)	Unit
4127400	2	0.1	±0.025	each
4127466				12/pk
4127300	10	0.2	±0.12	each
4127368				12/pk

Serological Pipet, Sterile, Glass



Sterile, glass pipet with blue graduation scale. Calibrated "To Deliver". Complies with ASTM E438, Class B requirements and designed from ASTM Specification E714.

Prod. No.	Capacity (mL)	Graduations (mL)	Negative Graduations (mL)	Tolerance (mL)	Unit
2093135	1	0.01	0.2	±0.02	50/pk
2093165					500/pk
2093136	2	0.01	0.2	±0.04	35/pk
2093166					175/pk
2093127	5	0.1	1	±0.15	25/pk
2093157					400/pk
2093128	10	0.1	2	±0.3	25/pk
2093158					400/pk

Serological Pipet, Sterile, Polystyrene



Sterile, disposable plastic pipet. Individually wrapped. Color coded. Calibrated "To Deliver". Complies with ASTM E934.

Prod. No.	Capacity (mL)	Graduations (mL)	Negative Graduations (mL)	Color Code	Unit
2092625	1	0.01	0.3	Yellow	50/pk
2092655					1000/pk
2092626	2	0.01	0.3	White	50/pk
2092656					1000/pk
2092627	5	0.1	2	Blue	50/pk
2092667					200/pk
2092628	10	0.1	3	Orange	50/pk
2092668					200/pk

Serological Pipet, Sterile, Polystyrene with Plug



Sterile, disposable plastic pipet with plug. Bulk packaged in 25/pack. Color coded. Black ascending/descending graduations. Calibrated "To Deliver". Accuracy ±2%.

Prod. No.	Capacity (mL)	Graduations (mL)	Color Code	Unit
2092835	1	0.01	Yellow	50/pk
2092855				1000/pk
2092826	2	0.01	Green	50/pk
2092856				1000/pk
2092827	5	0.1	Blue	50/pk
2092867				500/pk
2092828	10	0.1	Red	50/pk
2092868				500/pk

Pipets continued on next page.

Pipets (continued)

Single Channel Pipet



Hach's new variable volume single-channel, air-displacement pipets feature robust design, comfortable ergonomics, slim-line tip ejection, and single-handed operation. Outstanding accuracy with adjustments in 50 μ L increments (0.05 mL). Ideal for use with Hach TNTplus™ reagents. Supplied with calibration tool.

Product Number	Volume (mL)	Accuracy
BBP078	0.2-0.4	0.8-0.65%
	0.5-1.0	0.60%
BBP065	1.0-5.0	0.05%

Prod. No.	Description	Unit
BBP078	0.2-1.0 mL Pipet	each
BBP065	1.0-5.0 mL Pipet	each
LZP320	One each of BBP078 and BBP065, plus one box (ea) of tips	pk
BBP079	Pipet Tip for BBP078	100/pk
BBP068	Pipet Tip for BBP065	75/pk

TenSette® Single Channel Pipet



Perform accurate, economical pipetting with Hach's TenSette® pipets. Single-channel, air-displacement pipets come in two models: 0.1-1.0 mL volumes (0.1 mL increments) or 1.0-10.0 mL (1.0 mL increments). Volume selection with a simple twist of the turret.

Prod. No.	Description	Unit
1970001	TenSette Pipet: 0.1-1.0 mL; incl. 50 tips	each
2185696	Pipet Tips: 0.1- 1.0 mL; non-sterile	50/pk
2185628	Pipet Tips: 0.1- 1.0 mL; non-sterile	1000/pk
1970010	TenSette Pipet: 1.0 -10.0 mL; incl. 50 tips	each
2199796	Pipet Tips: 1.0-10.0 mL; non-sterile	50/pk
2199725	Pipet Tips: 1.0-10.0 mL; non-sterile	250/pk
2558996	Pipet Tips: 1.0-10.0 mL; sterile (indiv. wrapped)	50/pk

Transfer Pipet, Sterile



LDPE 0.5 & 1.0 mL marks 3 mL capacity.

Prod. No.	Description	Unit
2232512	Sterile Transfer Pipet	12/pk

Volumetric Pipet, Class A, Glass



Glass Class A pipets unserialized and calibrated "To Deliver". Designed to ASTM E969 specification for accuracy and ASTM E1273 for color coding.

Prod. No.	Capacity (mL)	Tolerance (mL)	Color Code	Unit
1451534	0.5	± 0.006	2 Black	each
1451535	1	± 0.006	Blue	each
1451536	2	± 0.006	Orange	each
1451503	3	± 0.01	Black	each
1451504	4	± 0.01	2 Red	each
1451537	5	± 0.01	White	each
1451509	9	± 0.02	Black	each
1451538	10	± 0.02	Red	each
1451539	15	± 0.03	Green	each
1451520	20	± 0.03	Yellow	each
1451550				6/pk
1451540	25	± 0.03	Blue	each
1451570				6/pk
1451541	50	± 0.05	Red	each
1451571				6/pk
1451542	100	± 0.08	Yellow	each

Volumetric Pipet, Class A, Certified, Glass



Glass Class A pipets serialized and calibrated "To Deliver". Each comes with Certificate of Identification and Capacity. Marked with an "A" to designate compliance to ASTM E969.

Prod. No.	Capacity (mL)	Tolerance (mL)	Color Code	Unit
2636165	1	± 0.006	Blue	6/pk
2636166	2	± 0.006	Orange	6/pk
2636133	3	± 0.01	Black	6/pk
2636167	5	± 0.01	White	6/pk
2636168	10	± 0.02	Red	6/pk
2636150	20	± 0.03	Yellow	6/pk
2636170	25	± 0.03	Blue	6/pk
2636171	50	± 0.05	Red	6/pk
2636172	100	± 0.08	Yellow	6/pk

Pitcher, Graduated



Chemical-resistant, shatter-proof, tall-form pitchers with well-designed spouts, and large handles. Metric graduations are molded onto outside wall of each pitcher. Polypropylene, steam autoclavable at 250°F (121°C).

Prod. No.	Capacity (cc)	Height	Graduations (mL)
2612842	100	80 mm (3.1")	5
2612846	250	119 (4.7")	5
2612849	500	135 (5.3")	10
2612853	1000	167 (6.6")	50
2612854	2000	205 (8.1")	100

Pump, Vacuum, Hand-Operated

This unit is ideal for field use and is a real convenience in the lab. Pumping rate is 15 cc (0.50 oz) per stroke. Entire unit is corrosion-resistant, sealed, and self-lubricating. Nozzle fits standard 6 mm (1/4") I.D. tubing. Supplied with 61 cm (2') of clear plastic tubing. Choose with or without vacuum gauge.



Economy model shown.

Prod. No.	Description	Unit
1428300	Economy Hand Pump	each
2094100	Hand Pump with Vacuum Gauge	each

Pump, Vacuum Pressure, Low Capacity



Provides up to 68.6 cm (27") Hg vacuum for applications in laboratory, office or industrial plant—vacuum distillation, filtration, and air pollution studies employing membrane filters. Quiet, pulse less air delivery and vacuum. Compact dimensions (WxDxH) 15x39x20 cm (6x15.4x8 inches). Complete with vacuum and pressure gauges and regulators, oil filter assembly, hose nipples, outlet filter, switch, cord, and plug. Capacity; 0.6 liters/sec (1.3 cfm) at 0 mm Hg. 124 W (1/6 HP).

Prod. No.	Description	Unit
2824800	115V, 60 Hz, 1.3 cfm, 1725 RPM w/ N. American plug	each
2824801	220V, 60 Hz, 1.3 cfm, 1725 RPM w/ N. American plug	each
2824802	220V, 60 Hz, 1.3 cfm, 1725 RPM w/ European plug	each
2824900	Pump maintenance kit for all of above	each
2951341	1/4" Vacuum Tubing, 10'	each

Pump, Vacuum Pressure, High Capacity

Provides up to 27.6" Hg vacuum for applications in laboratory, office or industrial plant—vacuum distillation, filtration, and air pollution studies employing membrane filters. Quiet, pulse less air delivery and vacuum. Complete with vacuum and pressure gauges and regulators, oil filter assembly, hose nipples, outlet filter, switch, cord, and plug. Capacity: 100 liters/min (3.5 CFM). 1/3 HP. Dimensions (LxWxH): 15x10x10 inches. Weight: 16.5 lbs. Tubing needed: 3/8".



Prod. No.	Description	Unit
2947000	115V, 60 Hz, 3.5 CFM	each
2951342	3/8" Vacuum Tubing, 10'	each

Rack, Agar Slant

Polycarbonate, 40 place rack for preparing agar slants. Choose 5° or 20° slant by placement of rack. Each slot keyed with numbers and letters to aid in identification. 4 x 10 slot arrangement. Racks stackable and autoclavable. Overall dimensions: 29 x 11.4 cm (11.25 x 4.5").



Prod. No.	Description	Unit
2406300	Agar Slant Rack	each

Rack, BOD Bottle

Rugged PVC-coated wire rack provides corrosion resistant transport system for 300 mL BOD bottles. Racks interlock for efficient transport and storage.



Prod. No.	Description	Unit
2094200	12 Bottle BOD Rack	each
2094201	24 Bottle BOD Rack	each

Rack, COD and Test Tube

Stainless steel rack for holding hot COD vials or test tubes prior to reading. Fit Hach COD vials and Test 'N Tube vials. Vials not included.



Prod. No.	Description	Unit
1864100	COD Rack	each

Rack, Coliform (MPN) Tube

Powder-coated steel rack holds 25 Hach MPN-style tubes (and similar tubes) for incubation, transport, or storage. Compartments keyed with numbers and letters to aid in identification. Autoclavable (up to 475°F).



Prod. No.	Description	Unit
221500	Coliform (MPN Tube) Rack	each

Rack, Drying

Epoxy-coated, steel-wire drying rack for test tubes, vials, flasks, beakers, and other glassware. Three rows of hair-pin looped supports to hold large-diameter necks. Fourteen loops total. Top row has 12 straight-pin for smaller tubes and glassware. Polystyrene tray fits into bottom rails to catch draining water. Dimensions: 43 x 17 x 48 cm (17 x 6.7 x 19"). Free-standing or wall mount option.



Prod. No.	Unit
2089000	each

Racks — Ring, Support



Rack, Electrode

Polypropylene, eight-place rack for storage, conditioning, cleaning of electrodes. Can also accommodate tubes up to 20 mm (OD).

Prod. No.	Description
2089400	Electrode Rack

Unit
each



Rack, Test Tube, Polyethylene

Twelve-place rack accepts up to 24 mm (O.D.) tubes and has five pins for inverting tubes for drying. Autoclavable.

Prod. No.	Description
1488600	Polyethylene Test Tube Rack

Unit
each

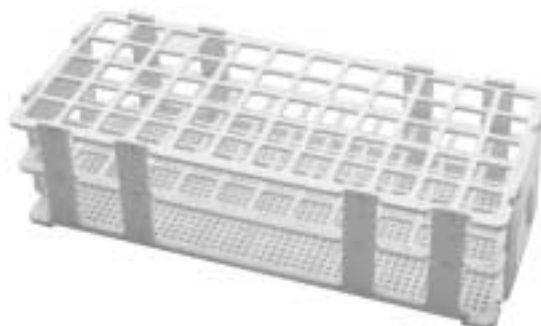


Rack, Pipet

Polypropylene, fifty-place rack for safe, orderly storage of pipets. Helps create an efficient storage system or a well organized liquid handling station. Holes in top and middle decks are 16 mm diameter (0.63"); bottom holes are tapered to 6 mm (0.24") to prevent contact with supporting surface. Autoclavable to 122°C. Overall dimension: 21 x 11 x 22 cm (8.3 x 4.3 x 8.7").

Prod. No.	Unit
2094700	each

Rack, Test Tube, Polypropylene



Twenty to ninety-place rack features a special blend of polypropylene which sinks in water, assuring non-floating racks when immersed. Autoclavable. Stackable and autoclavable. Overall dimensions: 24.6 x 10.7 x 6.4 cm (9.7 x 4.2 x 2.5").

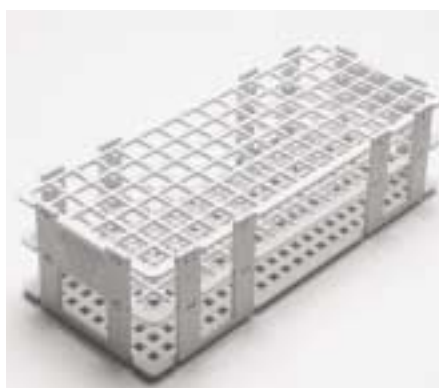
Prod. No.	Max. Tube Diam. (O.D.)	No. of Holes	Arrangement	Unit
2497900	13 mm	90	6 x 15	each
2497901	16 mm	60	5 x 12	each
2497902	20 mm	40	4 x 10	each
2497912	20 mm	20	4 x 5	each
2497903	25 mm	24	3 x 8	each
2497904	30 mm	21	3 x 7	each



Rack, Sample Bottle/Bag

Plastic-coated wire rack provides corrosion resistant transport system for sample bottles and bags. Racks feature 15 or 20 compartments with double-grid bottom to prevent loss of samples during transport. 15 compartment rack is ideal for Whirl-Pak® sample bags (4 oz). 20 compartment rack fits most bottles associated with standard drinking water sampling. Autoclavable.

Prod. No.	# of Compartments	Compartment Dimensions	Overall Dimensions	Unit
2551800	15	4.4 x 3.8 cm (1.75 x 1.5")	21 x 15.2 x 8.3 cm (8.3 x 6.0 x 3.3")	each
2551801	20	6.4 x 6.4 cm (2.5 x 2.5")	34 x 27 x 10.2 cm (13.4 x 10.6 x 4.0")	each



Rack, Test Tube, No-Wire

Ninety-place No-Wire Rack features locking mechanism that prevents "floaters" in water baths and speeds decanting by allowing the whole rack to be inverted. Heavier-than-water polypropylene assures non-floating racks when immersed, even in agitated water. Autoclavable. Numbered and lettered rows

(6 x 15 array) aid in identification of tubes (10-13 mm diameter). Collapsible for storage, yet assemble in seconds. Overall dimensions: 24.8 x 10.5 x 7 cm (9.75 x 4.12 x 2.75").

Prod. No.	Unit
2587300	each

Respirator, Disposable, for Dust and Mist

Soft material in inner face-piece doesn't irritate skin. Adjustable nose-clip and soft foam nose-piece provide a custom fit. Protection against dust and mist not less than 0.05 mg/m³. NIOSH-MSHA approved, No. TC-21C-351. Package of 20.

Prod. No.	Unit
2550800	each



Ring, Support

Cast-iron construction with zinc-plated finish. Distance from center of ring to center of clamp is 108 mm (4.25").

Prod. No.	Ring (I.D., O.D.)	Unit
58000	(67, 83 mm)	each
58001	(92, 108 mm)	each
2656300	(102, 118 mm)	each

Use Clamp, Prod. No. 32600 (page 332) with 2656300.



Rod, Glass — Sampler, Sewage

Rod, Stirring, Glass

For stirring. 150 mm (6") long, 5.0 mm (0.196") diameter.

Prod. No.	Unit
177001	3/pk



Salt Tester

Low Range Tester



High Range Tester



Low Range Tester is ideal for spot checking NaCl-based samples. Display reads direct concentration—no manual corrections are necessary. Push button calibration provides easy and precise field calibration. Hold function freezes measurement for easy viewing and recording. Measures up to 10.00 ppt salinity.

High Range Tester displays a quick ppm readout based on NaCl curve and offers two modes of five-point calibration. For quick and easy calibrations, use automatic mode with preset calibration points at the most popular values. For more flexibility, calibrate in the manual mode and set your calibration point at any value. Measures up to 50.0 ppt salinity.

Prod. No.	Description	Unit
2510700	Salinity Tester - Low Range	each
2510800	Salinity Tester - High Range	each
18349	Calibration Solution, NaCl, 500 mL	each

Sample Container

Plastic, leak-proof. Corning Snap Seal™ offers a non-sterile, leak-proof, attached cap container for field use in sampling water, soils, and sludge. Locking device helps prevent accidental opening of sample; container closes with patented sealing mechanism so sample won't leak.



Prod. No.	Description	Unit
2552114	45 mL	600/pk
2552212	120 mL	250/pk
2552411	240 mL	140/pk
2552511	300 mL	100/pk
2263174	Sample cups, disposable	2500/pk
2263146	Sample cups, disposable	100/pk
2263274	Lid for sample cup	3000/pk

Sample Transport Kit

Contains everything needed for collecting field samples, keeping them cold during transport. Includes Rubbermaid Cooler, plastic-coated rack with 15 compartments for sampling bags, 100 Whirl-Pak sampling bags (177 mL) with dechlorinating agent, one leak-proof refrigerant pack. Dimensions: 42.4 x 28.4 x 58.6 cm (16.7 x 11.2 x 23.1").



Prod. No.	Description	Unit
2568700	Sample Transport Kit	each

Sample Vial

120 mL sterile, hinged-cap vials meet all EPA requirements for microbiology sampling. Collection, incubation, and accurate reading can all be done in the vial without a transfer step. 100 mL raised fill line. Polypropylene.



Prod. No.	Description	Unit
2634001	120 mL with Thiosulfate and Custody Tie	200/pk
2634002	120 mL without Thiosulfate	200/pk

Sampler, Grab

Guarantees underwater sampling without surface contamination. Assists in conforming to procedures described in the USEPA Handbook for Monitoring Industrial Wastewater. Clamp the sterilized, capped bottle onto the grab sampler before sterilizing. Remove cap, collect sample, and replace cap without touching the bottle or getting wet. Sampler is constructed of 1.9 cm (0.75") rigid square aluminum tubing with baked enamel finish. Comes complete with clamp and graduated 1000 mL borosilicate glass



sampling bottle with Teflon-lined cap. Adjustable clamp for smaller bottles also provided. Sampler length: 1.8 m (6'). Weight: 1.8 kg (4 lb).

Prod. No.	Description	Unit
2095200	Grab Sampler	each

Sampler, Sewage

Ruggedly constructed for long life. Resistant to corrosive agents. Machined thread between cover and body ensures an air-tight closure. Holds sample bottle up to 300 mL (10 oz) size. Bottle is positioned by built-up platform and filling tube. Complies with Standard Methods sample-to-bottle volume-ratio recommended for sewage samplers. Made of nickel-plated brass. Cover chained to body. 43.2 x 10.2 cm (17 x 4") (L x D). 4.1 kg (9 lb).

Prod. No.	Unit
42700	each



Samplers — Scoops



Sampler, Water Core, Sludge Judge®

Accurate readings can be obtained on suspended solids up to a depth of 4.5 m (15'). Comes in three 1.5 m (5') sections with screw-type fittings. Designed for sampling solids in wastewater and food processing applications. Standard Sludge Judge features 3/4" diameter plastic tubing, while the large capacity Sludge Judge features 1-1/4" diameter plastic tubing for double the capacity.

Prod. No.	Description	Unit
2194300	3/4" Standard Sampler	each
2506102	1-1/4" Large Capacity Sampler	each

Sludge Judge Accessories

Sludge Judge accessories help maintain a long, trouble-free service life. Cleaning brush not recommended for cleaning oil and grease. Use Grease Trap Cleaning Rod in conjunction with Cleaning Strips and a mild detergent to effectively remove oil & grease from plastic tubing.

Prod. No.	Description	Unit
2194301	Carrying Case – fits both models	each
2506101	Cleaning Brush – Standard Sampler	each
2506103	Cleaning Brush – Large Sampler	each
2506104	Grease Trap Cleaning Rod	each
2506105	Cotton Cleaning Strips	50/pk



Sampler, Economy

For convenient sampling from tanks, vats, streams, ponds, lakes, etc., these economy dippers are light, easy to use and portable. The polypropylene cups have threaded fittings that screw onto the handle. Two pouring spouts on the 500 mL (16 oz) dipper make it useful for left or right-handed people to pour from either side. Ends are sealed for easy cleaning and include a hook for hanging.

Prod. No.	Description	Unit
2929301	Sampler Dipper 3ft Handle	each
2929302	Sampler Dipper 6ft Handle	each
2929401	Extra screw-on cup 500 mL (3 ft. and 6ft. only)	each
2943000	Sampler Dipper 12ft Handle	each

Sampler, Ultra

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. A 1000 mL graduated polypropylene pitcher is mounted on an aluminum tube handle. The handle has 3 parts, a 91cm (36") lower section, a 112cm (44") telescoping section, and an additional 91cm (36") upper section. Connections are made with spring buttons with adjusting steps, 15cm (72") apart. Minimum handle length is 91cm (36"), maximum length is 274cm (108"). Handle diameter is 25mm (1") with 22mm (7/8") telescoping tube.

Prod. No.	Unit
2929501	each



Scoop, Soil, Plastic

Plastic soil scoops with metered bowls (weights given as NaCl).

Prod. No.	Description	Unit
2657201	1 g (0.85 cc)	each
2657202	2 g (1.70 cc)	each
2657205	5 g (4.25 cc)	each
2657210	10 g (8.5 cc)	each
2657200	Set: includes all of the above	each

Scoop, Spatula

Curved shape minimizes spilling with small volumes of materials. Pointed-end and blunt-end for a variety of uses. Overall Length: 17 cm (6.7").

Prod. No.	Unit
1225700	each



Scoop, Sampler, Sterile

Individually packaged sterile sampler of one-piece high-impact styrene. Capacity 60 mL (20 oz).

Prod. No.	Unit
2600900	each



Secchi Disk — Stand, Support

Secchi Disk



Prod. No.	Description	Unit
2177200	20 cm (7.87"), alternating quadrants	each

Settleometer Kit

Complete kit for analyzing activated sludge process. Includes a transparent, polycarbonate 1-L jar with cover. Jar has easy-to-read white graduations and is impact-resistant. Custom polypropylene paddle allows agitation of sample without scratching the jar. Also includes 10 polycarbonate centrifuge tubes (15 mL; graduated). All components chemically resistant at pH range 3-10.



Prod. No.	Description	Unit
2115700	Settleometer Kit	each
2764400	Timer	each

Spatula, Policeman, Rubber

Angled edge suitable for scraping labware. Made of hard rubber. Use 0.5-cm (3/16") diameter glass rod as handle (Prod. No. 177001).

Prod. No.	Unit
1430900	each



Spatula, Micro

Nickel-stainless steel wire with vinyl handle. Length: 140 mm (5.5"). Flat end 51 mm (2") long and 7.9 mm (0.3") wide.

Prod. No.	Unit
1225600	each



Spatula, Stainless Steel

Corrosion-resistant, non-stick blade. Riveted wooden handle.

Prod. No.	Description	Unit
56162	Blade length, 7.62 cm (3")	each
56164	Blade length, 10 cm (4")	each
56166	Blade length, 15 cm (6")	each



Spoon, Measuring

Molded plastic cup. Weight based on sodium chloride. Used in many Hach test kits and procedures.



Prod. No.	Capacity (g)	Unit
49200	0.05	each
51100	0.1	each
63800	0.2	each
90700	0.5	each
51000	1	each

Spreader, Lazy-L™

Pre-sterilized, disposable Lazy-L Spreaders™ made of non-breakable polystyrene. L-shaped design allows for even spreading by turning the petri dish 360°.

Prod. No.	Unit
2747100	10 pk



Stand, Buret Support

Cast iron, white enamel base provides favorable background for observing end points. Also acts as a steady support for buret. Base is 178 x 330 mm (7 x 13") furnished with a 13 x 610 mm (0.5 x 24") aluminum rod with a threaded nut.

Prod. No.	Unit
32900	each



Stand, Support

Heavy black enamel, cast iron base and zinc-plated rod. Base is 127 x 203 mm (5 x 8") with an 8 x 508 mm (0.3 x 20") rod.

Prod. No.	Unit
56300	each



Steam Water Bath — Stir Bars

Steam Water Bath, Round

Gently heats flasks and bottles while minimizing evaporation. Includes seven concentric rings. Made from brushed stainless steel. Excellent for school laboratories. Diameter: 20cm. Depth: 7cm.

Prod. No.	Unit
2347900	each



Still, Water, Automatic

The easy-to-use Barnstead/Thermolyne FI-Stream II 2S Glass Still provides low volumes (2.0 liters per hour) of high-quality distilled water. The still removes both inorganic and organic impurities. Patented vapor trap eliminates carry-over of vapor-borne water droplets which may contain impurities. The still's space-saving design allows for wall- or bench-mounting. The still has fully automatic controls, a level sensor, and dual feed capability. CSA approved. Pressure: 10-80 psi. Dimensions: 79 x 26 x 32.5 cm (31.5 x 10.5 x 13"). Shipping weight: 15 kg (33 lbs).



Prod. No.	Description	Unit
2615900	120 Vac, 50/60 Hz	each
2615902	220 Vac, 50/60 Hz	each

Stir Bar Magnetic Arrester



Use the Magnetic Stirring Bar Arrester to hold your stirring bar in place when pouring from a beaker or flask.

Prod. No.	Description	Unit
2928501	9.4 mm thick x 51 mm dia	each

Stir Bar Magnetic Retriever

Polyethylene pickup rod with powerful magnet sealed in one end and hang-up grip on other; 31 cm (12") long.



Prod. No.	Description	Unit
1523200	Stir Bar Retriever	each

Stir Bar, Cuvette

Teflon magnetic centrifugal stirrer fits into standard 10 mm light path spectral cell and provides rapid vertical and horizontal mixing with a minimum of vortexing when placed on a magnetic stirrer. This one-piece molded unit will not scratch cuvettes. May also be used in test tubes.



Prod. No.	Description	Unit
2140800	9 mm dia x 8 mm ht	each

Stir Bar, Egg Shaped

Designed specifically for round bottom flasks and vessels. The Teflon coated, egg-shaped, magnetic stir bar fits the round bottom for uniform stirring without restriction. Recommended for the following round bottom flask sizes: 10, 25, 50, and 100 mL.



Prod. No.	Description	Unit
2753200	3/4" L x 3/8" dia	each

Stir Bar, Micro

Use micro stir bar for mixing in vials, test tubes, spectrophotometer cells and other small-volume containers. Usable at temperatures up to 260°C. Alnico V magnet encapsulated in Teflon.



Prod. No.	Description	Unit
2054960	2 mm dia x 7 mm L	each
2054959	3 mm dia x 10 mm L	each

Stir Bar, Micro, Rod-Shaped

For stirring in extremely small containers.



Prod. No.	Description	Unit
1076416	0.79 cm (0.31") dia x 3.81 cm (1.5") L	each

Stir Bar, Octagonal

Teflon coated with molded pivot ring.



Prod. No.	Description	Unit
2095348	12.7 x 7.9 mm (0.5 x 0.3")	each
2095349	15.9 x 7.9 mm (0.63 x 0.3")	each
2095350	22.2 x 7.9 mm (0.87 x 0.3")	each
2095351	25.4 x 7.9 mm (1.0 x 0.3")	each
2095352	28.6 x 7.9 mm (1.12 x 0.3")	each
2095355	50.8 x 7.9 mm (2.0 x 0.3")	each

Stir Bar, Plus-Shaped

This magnetic stir bar adds speed and efficiency to your mixing requirements. The "+" shape creates a deep vortex and provides stable, quiet operation.



Prod. No.	Size	Unit
2928601	3/8"	each
2928602	3/4"	each
2928603	1"	each
2928604	1-1/4"	each
2928605	1-1/2"	each

Stir Bar, Polygon

Teflon coated stir bar.



Prod. No.	Description	Unit
4531500	2.22 cm x 0.48 cm	each

Stirrer, Hand-Held



Hand-held mini-mixer used with test tubes, micro centrifuge tubes and containers too narrow for conventional mixers. Stirring rod flares out for use in larger spaces. Clear vinyl carrying case, 11.4 x 6 cm (4.5 x 2.4") stirring rod, 2 AA batteries included. Dimensions including rod 20.3 x 3.2 x 2.5 cm (8 x 1.25 x 1"). Weight 3 oz.

Prod. No.	Description	Unit
2496400	Stirrer, Mixer	each
2496510	Disposable nylon stirring rods for use with Stirrer (2496400), 10/pack	each

Stirrer, Lab, Non-Programmable



Standard model for either four- or six-paddle lab stirrer. Features digital readout, stainless steel paddles placed 6 inches apart, regulated variable speeds of all paddles simultaneously, from 1-300 rpm, powder-coated steel uniframe chassis, built-in illuminator, anti-glare curtain, and dust cover. The unit holds either round 1000 mL mixing beakers or square 2 L Wagner Floc Jars. Beakers and Wagner Floc Jars are sold separately.

Prod. No.	Description	Unit
2703800	Six Paddle Lab Stirrer, 120 V 60 Hz	each
2703900	Four Paddle Lab Stirrer, 120 V 60 Hz	each
2703902	Four Paddle Lab Stirrer, 220 V 50 Hz	each
2692500	Paddle Assembly (for all stirrers)	each
2692800	Shaft Assembly (for all stirrers)	each
4117000	Wagner Floc Jar, 2-liter, square	each
50083	Beaker, 1000 mL, round, pk/6	each

Stirrer, Lab, Programmable



Provides sequential or continuous operation with precise control of stirring speed and timing. Four memory banks can each be set for paddle speeds from 5 to 300 RPM in one-RPM increments, with run times from 1 second to 59 minutes, 59 seconds in one-second increments. The stirrer can run sequentially through all memory banks, independently in any one memory mode, or manually at a selected speed. To allow work elsewhere in the lab, audio signals can be programmed in each memory bank. Programmed information is retained even with power off, permitting day-to-day test reproducibility. Features rugged, unitized construction, and comes complete with built-in floc illuminator, anti-glare back panel, six 1000 mL round beakers, and dustcover. Unit weight: 29.5 kg (65 lbs). Dimensions: 118.2 x 40.7 x 49.5 cm (46.5 x 16 x 19.5").

Prod. No.	Description	Unit
2631700	Six Paddle Lab Stirrer, 120 V 60 Hz	each
2631702	Six Paddle Lab Stirrer, 220 V 50 Hz	each
2704000	Four Paddle Lab Stirrer, 120V 60 Hz without beakers	each
2692500	Paddle Assembly (for all stirrers)	each
2692800	Shaft Assembly (for all stirrers)	each

Stirrers — Stoppers



Stirrer, Magnetic

Cimarec Ceramic top stirrer features a reflective, white ceramic that is seamless easy to clean, and resistant to alkali/acid solutions. Low-profile increases efficiency and reduces spill risk. StirTrac™ technology offers improved slow speed stirring, consistent speed control, adjustable speed range from 50-1200 RPM, and rapid braking. Detachable cord. Integral ringstand/support rod holder (order rod separately).

Prod. No.	Ceramic Top Dimensions	Electrical Specifications (Volts - Hz)	Unit
2881200	10.8 x 10.8 cm (4.25 x 4.25")	120 - 50/60	each
2881202	10.8 x 10.8 cm (4.25 x 4.25")	230 - 50/60 CE Marked	each
2881300	17.8 x 17.8 cm (7.0 x 7.0")	120 - 50/60	each
2881302	10.8 x 10.8 cm (4.25 x 4.25")	230 - 50/60 CE Marked	each
2705900	0.5" (1.3 cm) diameter support rod		each

Stirrer, Magnetic, Battery-Powered



Battery-powered portable magnetic stirrer in plastic case with rubber feet, on/off switch and speed control knob. 15.2 x 8.3 x 5.4 cm (6 x 3.3 x 2.1"). Operates on two D-size batteries - carbon/zinc, alkaline or rechargeable type (not included with the stirrer). Screw-on top is removable for battery change. Shipping weight, 0.34 kg (0.75 lb).

Prod. No.	Unit
2163600	each

Stopcock Grease

For lubricating ground glass joints glass stopcocks and valves, and for sealing desiccators. Lubricant has a low vapor pressure and resists attack by acidic and alkaline solutions.

Prod. No.	Description	Unit
56275	Tube of 75 grams	each



Stopcock Plugs

Choose Glass or Teflon to replace the stopcock in your buret, separatory funnel or other labware.

Prod. No.	Description	Size
2108502	Glass	2 mm approx. plug bore
2095661	Teflon	2 mm approx. plug bore
2095664	Teflon	4 mm approx. plug bore
2095666	Teflon	6 mm approx. plug bore

Stopper/Tubing Sizer

The handy Stopper / Tubing Sizer easily determines the correct size of the cork or stopper needed for any flask, bottle, etc. Two scales are provided: one for rubber and vinyl stoppers and the other for corks. The backside is a circular scale to size tubing outside diameters between 4 and 52mm. 156mm x 66mm wide (6 1/8" x 2 5/8") at the top.



Prod. No.	Description	Unit
2938700	Stopper/Tubing Sizer	each

Stopper, Glass, Hollow

Hollow Pyrex stopper. Lightweight, strong to reduce chipping and breakage. Barrel-shaped head easy to clean, easier to rotate in or out. One per case. Stopper Nos. 13, 16, and 22 sold with Cylinders (Mixing, Tall, Glass) Product Nos. 1896-40, -41, -42, and Volumetric Flasks (Class A), Product No. 14574 series.



Prod. No.	Size No.	Approx. Length of Ground Zone	Unit
2603209	9	14 mm (0.55")	each
2603213	13	14 (0.55")	each
2603216	16	15 (0.59")	each
2603222	22	20.5 (0.81")	each

Stopper, Neoprene, One Hole

Made of synthetic rubber that resists petroleum products, fats, oils, and organic chemicals. Recommended where natural rubber would deteriorate or be attacked.



Prod. No.	Size No.	Hole Diameter	Unit
1480403	3	12 mm	6/pk
1480407	7	12 mm	6/pk
1480477	8	8 mm	1

Stopper, Neoprene, Solid

Recommended where natural rubber would deteriorate or be attacked.



Prod. No.	Size No.	Unit
1480800	0	12/pk
1480801	1	12/pk
1480802	2	12/pk
1480803	3	12/pk
1480804	4	12/pk
1480805	5	12/pk
1480806	6	6/pk
1480865	6-1/2	6/pk
1480807	7	6/pk
1480808	8	6/pk
1480809	9	6/pk

Stopper, Polyethylene, Hollow

Made of low-density polyethylene. Interchangeable with rubber stoppers. Safer and more economical than glass. Fits snugly. Excellent as sample cup for pH meters, flame photometers and automatic analyzers, or as a small beaker. 25-26 mm (1") high.



Prod. No.	Top (mm)	Bottom (mm)	Size	Unit
1448020	15	9	0	6/pk
1448000	17	11	1	6/pk
1448001	20	14	2	6/pk
1448002	23	17	3	6/pk
1448004	26	20	4	6/pk
1448006	32	26	6	6/pk

Stopper, Polyethylene

Made with closed bottom. Linear, high-density polyethylene to conform to TS stopper dimensions. Rings on base provide efficient seal. Improved design protects vessel neck in the event of accidental tipping. May be used in place of the conventional solid penny-head stoppers.



Prod. No.	Size No.	Unit
2095509	9	6/pk
2095513	13	6/pk
2095516	16	6/pk
2095539	19	6/pk
2095542	22	6/pk
2095547	27	6/pk

Stopper, Rubber, One Hole

Pliable and non-corrosive.



Prod. No.	Size No.	Hole Diameter	Unit
211902	2	5 mm	6/pk
211904	4	5 mm	6/pk
211906	6	5 mm	6/pk
211907	7	5 mm	6/pk
211908	8	5 mm	6/pk
211909	9	5 mm	6/pk
211910	10	5 mm	6/pk

Stopper, Rubber, Solid

Black. Soft and resilient.



Prod. No.	Size No.	Unit
211820	0	12/pk
211800	0	12/pk
211801	1	12/pk
211802	2	12/pk
211803	3	12/pk
211804	4	12/pk
211805	5	12/pk
211806	6	12/pk
211807	7	12/pk
211808	8	12/pk
211809	9	6/pk
211810	10	6/pk
211811	11	6/pk
211812	12	6/pk

Stopper, Rubber, Two Hole

Pliable, non-corrosive black rubber.



Prod. No.	Size No.	Hole Diameter	Unit
2677406	6	5/5 mm	6/pk
2677506	7	5/5 mm	6/pk
2677606	8	5/5 mm	6/pk
50450	9	14/5 mm	1
50449	11	14/5 mm	1

Stopwatch — Thermometer



Stopwatch, Water Resistant

Counts up to 24 hours with resolution of 1/100 second for first 30 minutes, 1 second thereafter. Features lap function, alarm clock, and calendar. Button cell battery included. Dimensions: 5.4 x 6 cm. (2.4 oz). NIST-certified.

Prod. No. 2630200 **Unit** each

Swabs, Cotton, Sterilized



Swabs (cotton tip, hardwood stick) used to transfer colonies from positive membrane filtration plates to confirmation broth. 6".

Prod. No. 2554300 **Unit** 100/pk

Syringe Filtration Unit



For filter sterilization of small quantities of dilution water.

Prod. No. 2323900 **Unit** each

Syringe, Luer-Lock Tip



Prod. No.	Description	Unit
1226300	1 cc	each
2228725	2 cc	25/pk
4321300	3 cc	each
2343333	5 cc	100/pk
2202400	10 cc	each
2225800	30 cc	each
2258700	60 cc	each
2586100	140 cc (not Luer-lock)	each

Hach Syringe Filters, Non-Sterile

Prod. No.	Description	Diameter	Pore Size	Unit
2513600	Nylon Syringe Filter	33 mm	0.2µm	50/pk
2513601	PVDF Syringe Filter	33 mm	0.22µm	50/pk
2513602	PVDF Syringe Filter	33 mm	0.45µm	50/pk

Hach Syringe Filters, Sterile

Prod. No.	Description	Diameter	Pore Size	Unit
2513700	PES Sterile Syringe Filter	33 mm	0.22µm	50/pk

Thermometer, Celsius



Glass, kerosene-filled, ranges from 10 to 200°C, 287 mm (11.3") in length, immersion depth of 58 mm (2.3").

Prod. No. 4560500 **Unit** each

Thermometer, Celsius, Mercury*



Mercury filled, laboratory grade, single scale (Celsius) with yellow back. Can be totally immersed.

*Cannot be shipped to CA, CT ME, MI, MN, RI, VT.

Prod. No.	Range	Divisions (°C)	Length
56601	-20 to 110°C	1	305 mm (12")
56602	-10 to 200°C	1	356 mm (14")

Thermometer, COD

Bi-metallic. Dial gauge 0 to 200°C $\pm 1\%$.
Two degree divisions. Probe diameter is .15 inches.

Prod. No.	Unit
4565500	each



Thermometer, Digital

Light weight and inexpensive, this K & J type thermometer provides extremely accurate and reliable temperature measurement. Features relative minimum and maximum temperature, hold, auto power off, and touch tone buttons.

Probe Range (K): -328 to 2498°F

Probe Range (J): -328 to 1922°F

Dimensions: 5 1/4" x 2 1/4" x 1 1/4"

Weight: 6 oz.



Prod. No.	Description	Unit
2630600	Thermometer, Digital	each
2630601	Stainless Steel Replacement Probe	each

Thermometer, Double Scale, Mercury*



Laboratory grade, mercury-filled, yellow back, total immersion thermometer with both Celsius and Fahrenheit scale markings.

*Cannot be shipped to CA, CT ME, MI, MN, NJ, RI, VT.

Prod. No.	Range	Divisions (°C °F)	Length
2095911	-20 to 110°C (0 to 230°F)	1 2	305 mm (12")
2095926	-10 to 260°C (20 to 500°F)	1 2	406 mm (16")
2095936	-10 to 400°C (20 to 750°F)	2 5	406 mm (16")

Thermometer, Fahrenheit, Mercury*



Mercury filled, laboratory grade, single scale (Fahrenheit) with yellow back. Can be immersed.

*Cannot be shipped to CA, CT ME, MI, MN, NJ, RI, VT.

Prod. No.	Range	Length	Unit
56701	-30 to 120°F	305 mm (12")	each
56702	0 to 300°F	305 mm (12")	each

Thermometer, NIST-Certified, Mercury*



Mercury-filled. Range: -1 to +51°C. Divisions: 0.1°C. Length: 460 mm (18"). Supplied with certificate with correction to the nearest 0.1°C. Certified at 0, 10, 20, 30, 37, 40, and 50°C. Resolution: 0.1°C.

*Cannot be shipped to CA, CT ME, MI, MN, NJ, RI, VT.

Prod. No.	Unit
2551500	each

Thermometer, Non-Mercury



Enviro-Safe non-Mercury thermometers feature an exclusive biodegradable liquid and dye. Easy to read, aesthetically distinctive due to dark green liquid and permanently fused markings. Each thermometer, individually calibrated against NIST traceable equipment, identified by unique serial number for ISO 9000 or other quality systems.

Prod. No.	Range	Resolution	Length
2635700	-10 to 225°C	1°C	405 mm (16")
2635701	-10 to 260°C	1°C	405 mm (16")
2635702	-20 to 110°C	1°C	305 mm (12")
2635703	0 to 230°F	2°F	305 mm (12")
2635704	0 to 300°F	2°F	305 mm (12")

Thermometer, Non-Mercury, Compact



Compact and durable, non-mercury thermometers enclosed in a protective nylon case. These thermometers are designed for ruggedness and come in many standard ranges. Suitable for all field and portable uses where an unprotected thermometer may break.

Prod. No.	Temp. Scale and Range	Resolution
2676100	-30 to 120°F	2°F
2676200	0 to 220°F	2°F
2676300	-5 to 45°C	0.5°C
2676400	Dual Range: -10 to 110°C, 0 to 220°F	1°C 1°F

Thermometers — Tongs



Temperature Pocket Pal™ Tester

Now IP67 rated (waterproof and dustproof). Designed for quick, on-the-spot use, the Temperature Pocket Pal is an accurate, economical tester offering a wide range (-15 to 170°C) of measurement otherwise requiring two glass thermometers. Sharp, easy-to-read digital display and rugged plastic body make it perfect for on-site measurement anywhere.

Prod. No.	Description	Unit
4445001	Pocket Pal Temperature Tester (-15 to 170°C)	each
4445010	Replacement Probe	



Timer, Counts Up or Down

Counts up or down for 99 minutes, one-second intervals. Fast programming with numeric keypad. Includes built-in stand, pocket clip, magnet, button cell battery. Dimensions: 6.35 x 6.67 x 1.90 cm (2.50 x 2.625 x 0.75"). Weight: 0.64 (1.4 oz). NIST-certified.

Prod. No.	Unit
2630300	each



Timer, Five-Channel

Four independent channels count up or down for any interval from one second to 100 hours; fifth channel is clock. Large display, one-minute alarm, memory, clock mode. Includes stand, pocket clip, magnet. Dimensions: 7.10 x 6.35 x 1.43 cm (2.875 x 2.50 x 0.56"). Weight: 0.08 kg (2.9 oz). Traceable to NIST.

Prod. No.	Unit
2630400	each



Timer, Mini

Compact, easy-to-read LCD; controls count up to 99 minutes in one-second intervals. Memory recall, 30-second alarm, touch tone buttons, magnetic back. Dimensions: 8.89 x 4.78 x 1.27 cm (3.5 x 1.875 x 0.5"). Weight: 0.45 kg (1 oz).

Prod. No.	Unit
2630500	each



Timer, Talking

Features a clear human voice. Large 3/4" display with icons to indicate the various modes: voice off/on, count-down/count-up, etc. Also features a built-in stand for benchtop use, pocket clip, and magnetic back. Button cell batteries included. NIST certified. Dimensions: 3.25" x 2.5" x 1". Weight: 2.2 oz.

Prod. No.	Unit
2764400	each



Timer, Three-Channel

Audible and visual alarm, manual and automatic off. All three channels visible at same time. Outstanding quartz-crystal accuracy of 0.006 sec. Dimensions: 76 x 76 x 36 mm (3 x 3 x 1.4"). One second to 10 hours. Weight: 113 g (4 oz).

Prod. No.	Unit
2348000	each

Tongs, Beaker

Plated steel, with Plastisol jaws. Length: 23 cm (9"). For use with 50 to 2000 mL beakers.



Prod. No.	Unit
56800	each

Tongs, Crucible

Nickel-plated steel. Length: 230 mm (9"). Wire size: 5 mm.



Prod. No.	Unit
56900	each

TDS Tester — Tube, Viewing

Total Dissolved Solids Pocket Pal™ Tester

IP67 rated (waterproof and dustproof). Ideal for quick TDS spot checks, this tester is not a replacement for a conductivity or TDS meter. Tester accuracy is $\pm 2\%$ at 25°C and accuracy can be $\pm 10\%$ of reading over the temperature measurement range. For more accurate measurement, use the sensION5 or sensION7 Conductivity Meters (see page 41). The Pocket Pal™ measurement range is 10 to 1990 TDS. Results are displayed digitally.



Prod. No.	Description	Unit
4440001	TDS Pocket Pal™ Tester	each
2367800	Replacement batteries, 4/pk	each
1440042	Calibration Standard, 100 mL NaCl	each

Total Dissolved Solids, TDSTestr



TDSTestr Low and TDS Tester High. Push button calibration high $\pm 1\%$ full scale accuracy. Certifiable to IP 67, waterproof and dustproof housing that floats. Replaceable sensor lets you reuse same meter body, saving you money. Hold Function, Auto-off, Automatic Temperature Compensation.

Prod. No.	Range	Resolution
2845700	0-1990 ppm	10 ppm
2845800	0-10.0 ppt	0.10 ppt
2845900	Replacement sensor for TDSTestr	

Tube, Culture, Rimless

Wall and bottom are of uniform thickness. Top is fire-polished. Easy-to-use marking spot. Package of 10.



Prod. No.	Overflow Capacity	O.D. x L
2096007	0.7 mL	6 x 50 mm
2096006	5	12 x 75
2096015	20	16 x 125
2096024	24	16 x 150
2096028	28	18 x 150
2096055	55	25 x 150

Tube, Culture, with Screw Cap

Cap has a firmly bonded rubber liner, providing a sure and highly inert sealing surface.



Prod. No.	O.D. x L	Capacity to Neck	Unit
2096208	13 x 100 mm	8 mL	10/pk
1436116	16 x 125	16	10/pk
1436120	16 x 150	20	10/pk
2096230	20 x 150	30	10/pk
2096250	25 x 150	50	10/pk
2275800*	16 x 100 mm	11 mL	1/pk
2275806*	16 x 100 mm	11 mL	6/pk
2899300*	16 x 100 mm	11 mL	250/pk

*Does not come with caps—see below for caps.

Tube Caps

White cap w/Teflon lining. Resistant to heat and autoclaving.

Prod. No.	Fits Tube No.	Thread Size	Unit
2241106	2275806	15-415	6/pk

Tube, Test

Well annealed and chemically stable. Rims are fire-polished. Easy-to-use marking spot.



Prod. No.	Overflow Capacity	O.D. x L	Unit
56510	10 mL	13 x 100 mm	10/pk
56516	16	15 x 125	10/pk
56524	24	16 x 150	10/pk
56528	28	18 x 150	10/pk
56575	75	25 x 200	10/pk

Tube, Viewing, Glass

Glass viewing tubes. 5 mL mark.



Prod. No.	Description	Unit
173006	Tubes	6/pk
173106	Stoppers	6/pk

Laboratory Supplies

Tube, Viewing — Tubing

Tube, Viewing, Plastic

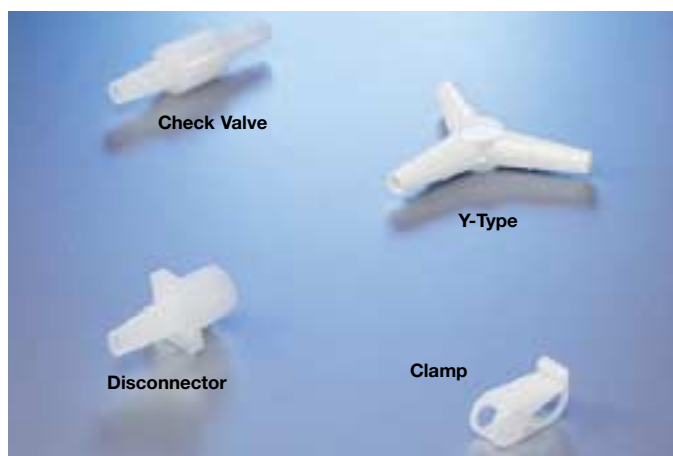
Plastic color viewing tubes. Used in many Hach kits.

Pushpin and pen shown for scale.



Prod. No.	Description	Unit
4660004	Tubes	4/pk
4660014	Caps	4/pk

Tubing Accessories



Check Valve

High-density polyethylene with gum rubber flap. Prevents back pressure in filter flasks. Easily taken apart for cleaning. Fits 6.4 mm (1/4") or 7.9 mm (5/16") I.D. tubing.

Prod. No.	Unit
2096300	6/pk

Clamp

Molded, white polycarbonate. Autoclavable. Will not distort, rust or corrode. Mini-clamp is a single position on/off clamp for use with thin-walled tubing under 4.7 mm (3/16") O.D. Larger clamp has 15 positions, stepped control to throttle flow from full open to complete closure. Large clamp fits tubing from 3.2 mm (1/8") to 11 mm (3/8") O.D.

Prod. No.	Description	Unit
2087900	Mini Clamp	100/pk
2087901	Large Clamp	12/pk

Disconnect Connector

High-density polyethylene disconnect connectors for any tubing system requiring quick, smooth connections such as on vacuum line with filtering flasks.

Prod. No.	Unit
1481000	6/pk

Equal Y-Type

Polypropylene. Rigid construction, autoclavable. Fits 6.4-mm (1/4") I.D. tubing. Ensures smooth continuous flow of liquids.

Prod. No.	Unit
2096403	3/pk

Tubing, C-Flex

White, thermoplastic elastomer with excellent chemical resistance and temperature range from -80 to 230°C. Can be sterilized by gamma radiation or autoclave. Supplied in 25-foot sections.



Prod. No.	I.D.	Wall Thickness
2327337	6.4 mm (1/4")	1.6 mm (1/16")
2327339	9.5 (3/8")	1.6 mm (1/16")

Tubing, Latex Rubber

Seamless wall. Tack-free outer surface. Packed in 3.6 m (12') lengths.



Prod. No.	Wall Thickness (in.)	I.D. (in.)
55918	1.6 mm (1/16)	6.4 mm (1/4)
55919	1.6 mm (1/16)	7.9 mm (5/16)
56018	2.4 mm (3/32)	6.4 mm (1/4)
56019	2.4 mm (3/32)	7.9 mm (5/16)

Tubing, Vacuum, Nalgene®

Similar to Nalgene 8000 regular tubing, but with heavier walls. Imprinted in red for instant identification. Saves time and avoids errors which could invalidate experiments or injure laboratory personnel.



Prod. No.	Length	I.D. mm (in.)	O.D. mm (in.)	Wall mm (in.)
2951341	10'	6.4 (1/4)	15.9 (5/8)	4.8 (3/16)
2951342	10'	9.5 (3/8)	22.2 (7/8)	6.4 (1/4)
2074145	50'	6.4 (1/4)	15.9 (5/8)	4.8 (3/16)
2074146	50'	9.5 (3/8)	22.2 (7/8)	6.4 (1/4)

Tubing, Tygon R-3603®

Chemical-resistant, Formula R-3603 Tygon tubing with flex strength greater than rubber. Unaffected by oxidizing agents and compatible with virtually any laboratory chemical. Bends readily to sharp radius curves and will maintain strong grip on glass or metal. Highly polished bore prevents interior build-up while facilitating cleaning. Meets Federal Specification L-T-790A, Type II.



Prod. No.	Length	I.D. mm (in.)	O.D. mm (in.)	Wall mm (in.)
2951336	10'	3.2 (1/8)	6.4 (1/4)	1.6 (1/16)
2951337	10'	4.8 (3/16)	7.9 (5/16)	1.6 (1/16)
2951338	10'	6.4 (1/4)	9.5 (3/8)	1.6 (1/16)
2951339	10'	9.5 (3/8)	12.7 (1/2)	1.6 (1/16)
2951340	10'	12.7 (1/2)	15.9 (5/8)	1.6 (1/16)
2951343	10'	19.0 (3/4)	25.4 (1)	3.2 (1/8)
2074038	50'	3.2 (1/8)	4.8 (3/16)	0.8 (1/32)
2074042	50'	3.2 (1/8)	6.4 (1/4)	1.6 (1/16)
2074043	50'	4.8 (3/16)	7.9 (5/16)	1.6 (1/16)
2074037	50'	6.4 (1/4)	9.5 (3/8)	1.6 (1/16)
2074041	50'	7.9 (5/16)	11.1 (7/16)	1.6 (1/16)
2074039	50'	9.5 (3/8)	12.7 (1/2)	1.6 (1/16)
2074040	50'	12.7 (1/2)	15.9 (5/8)	1.6 (1/16)
2074001	50'	19.0 (3/4)	25.4 (1)	3.2 (1/8)

Tweezers — Water Purification Systems

Tweezers

Plastic. Sure grip feature.



Prod. No.
1428200

Unit
each

Vial, Specimen

Borosilicate glass. Autoclavable.
Cap included.



Prod. No.	Capacity	O.D. x H	Unit
1497034	4	15 x 48	10/pk
1497038	8	17 x 63	10/pk
1497042	12	19 x 68	10/pk
1497046	16	21 x 73	10/pk
1497054	24	23 x 88	10/pk

Watch Glass

Heavy wall and uniform fire-polished
borosilicate glass edge.



Prod. No.	Diameter	Unit
57867	65 mm (2.6")	each
57870	100 mm (4")	each
57897	65 mm (2.6")	12/pk

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Water System, Ultrapure, Millipore® Direct-Q® 3



Designed for laboratories that do not have access to pretreated water and need between 1 and 10L of ultrapure water per day, the Direct-Q system delivers ultrapure (type I) and pure (type III) water on demand directly from tap water.

Direct-Q offers superior ultrapure water for BOD applications and effectively eliminates source water as a cause of high blanks in BOD analysis. Other applications include TOC analysis, general laboratory use, and creation of Standard Solutions for Turbidity and Metals testing. DQ3 Purification pack also required and sold separately. Dimensions: 16.5" x 11.4" x 21.3" (LxWxH). 90–255V, 50–60 Hz.

Features

- Easy installation, intuitive operation
- Maintenance offers simple cartridge change once or twice a year
- Warning alarm in case of sudden drop in water quality
- Easily accommodates different sizes of common lab glassware



Specifications

Ultrapure (Type I) Water Quality – Regular Operating Conditions

Resistivity, MΩcm at 25°C	18.2
TOC (Direct-Q 3 system)	<10 ppb
TOC (Direct-Q 3 UV system with 185/254 nm UV lamp)	<5 ppb
Particulates (size > 0.22 µm)*	<1 Particulate/mL
Flow Rate (w/ Millipak® Express 20 filter or BioPak™ cartridge)	>0.5 L/ min

Pure (Type III) Water Quality - Regular Operating Conditions

Ionic Rejection	> 94%
Organic Rejection for MW > 200	> 99%
Bacteria and Particulates	> 99%
Flow Rate	2.4 L/h at 15 °C (typical)

*When used with Millipak® Express 20 filter or BioPak™ cartridge.

Prod. No.	Description	Unit
2512100	Direct-Q 3 System (DQ3 Purification Pack Required)	each
2512200	Direct-Q 3 System with UV Lamp ¹ (DQ3 Purification Pack Required)	each

Consumables and Accessories

2512201	DQ3 Purification Pack	each
2512800	BioPak Ultrafiltration Cartridge	each
2512202	Millipak-20 Filter Unit	each
2512700	UV Lamp 185nm ¹	each

¹Cannot be shipped to CA, CT ME, MI, MN, NJ, RI, VT.

Water Purification Systems

Water System, Ultrapure, Millipore® Simplicity®



The Simplicity system delivers ultrapure (type 1) water from pretreated water (distilled, deionized or reverse osmosis) to laboratories requiring < 5 liters of ultrapure water per day. Simplicity is lightweight and optimal for your portable ultrapure water needs.

Applications include preparation of blanks and standard solutions for a variety of analytical procedures. Choose with or without built-in UV lamp. Purification pack required and sold separately. Choose the Purification Pack right for your laboratory. Dimensions: 14.2" x 11.4" x 20.1" (LxWxH). Operating weight: 18 to 20 lbs. 100 -230V, 50/60Hz.

Features

- Easy installation, intuitive operation
- Maintenance offers simple cartridge change once or twice a year
- Automatic notification to change your purification cartridge
- Lightweight and portable

Specifications

Ultrapure (Type 1) Water Quality – Regular Operating Conditions

Resistivity, MΩcm at 25°C	18.2
TOC (Simplicity system)	<15 ppb
TOC (Simplicity system with 185//254 nm UV lamp)	<5 ppb
Flow Rate	>0.5 L/ min

Prod. No.	Description	Unit
2512300	Simplicity System (Purification Pack Required)	each
2512400	Simplicity System with UV Lamp ¹ (Purification Pack Required)	each
2512401	Purification Pack for cleaner DI type water source	each
2512402	Purification Pack for dirtier DI type water source	each
2512403	Simplicity final filter, 0.05µm	each
2512700	UV Lamp 185nm ¹	each
2512800	BioPak Ultrafiltration Cartridge	each

¹Cannot be shipped to CA, CT ME, MI, MN, NJ, RI, VT.

Water System, Ultrapure, Millipore® Synergy®



The Synergy system delivers ultrapure (type 1) water from pretreated water (distilled, deionized or reverse osmosis) to laboratories requiring < 20 liters of ultrapure water per day. The compact design assures easy installation anywhere in your lab, on the bench or wall-mounted. The Synergy system allows delivery of a fixed volume of Type I water and automatically shuts off once the selected volume has been delivered. Available with or without built-in UV lamp.

Applications include HPLC isocratic and gradient solution preparation, Sample dilution, Preparation of chemical solutions used with titrators, spectrophotometers and general laboratory use. Purification pack required and sold separately. Choose the Purification Pack right for your laboratory. Dimensions: 15" x 11.4" x 21.3" (LxWxH). 100 -230V, 50/60Hz.

Features

- Easy installation, intuitive operation
- Maintenance offers simple cartridge change once or twice a year
- Automatic notification to change your purification cartridge
- Time saving, fixed-volume dispense



Specifications

Ultrapure (Type 1) Water Quality – Regular Operating Conditions

Resistivity, MΩcm at 25°C	18.2
TOC (Synergy system)	<10 ppb
TOC (Synergy system with 185//254 nm UV lamp)	<5 ppb
Flow Rate	up to 1.2 L/ min

Prod. No.	Description	Unit
2512500	Synergy System (Purification Pack Required)	each
2512600	Synergy System with UV Lamp ¹ (Purification Pack Required)	each

Consumables and Accessories

2512601	Purification Pack for cleaner DI type water source	each
2512602	Purification Pack for dirtier DI type water source	each
2512202	Millipak-20 Filter Unit	each
2512700	UV Lamp 185nm ¹	each
2512800	BioPak Ultrafiltration Cartridge	each

¹Cannot be shipped to CA, CT ME, MI, MN, NJ, RI, VT.



Weighing Boat

Flexible plastic receptacles for handling liquids or solids during weighing. These flexible polystyrene boats bend easily into a pouring spout to ensure non-spill transfer after weighing sample. Stiff lip provides sure-grip surface for handling; won't react to most weighing sample materials.

<u>Prod. No.</u>	<u>Dimensions: approx. I.D top/base</u>	<u>Unit</u>
2179000	67/46 mm	500/pk
2179100	110/85 mm	500/pk



Weighing Paper

Smooth surface for efficient sample recovery.

<u>Prod. No.</u>	<u>Dimensions</u>	<u>Unit</u>
1473800	76 x 76 mm (3 x 3")	500 sheets/pk
1473885	102 x 102 mm (4 x 4")	500 sheets/pk

Weight Set, Class M-2

Standard weight set. 16-piece, with stainless steel forceps. Eight fractional weights: 10, 20, 50, 100, 200, 200, 200, and 500 mg. (Two fractional weights, 200 mg and 500 mg, are stainless steel, the rest are aluminum) Eight brass gram weights: 1, 2, 2, 5, 10, 10, 20, and 50 grams. Polypropylene case.



<u>Prod. No.</u>	<u>Unit</u>
2101100	each

Wipes, Disposable

For wiping critical surfaces. Ideal for use with spectrophotometer cells and other optically sensitive glasses.



<u>Prod. No.</u>	<u>Size No.</u>	<u>Unit</u>
2096900	38 x 43 cm	70/pk
2097000	11 x 22 cm	280/pk
2097060	11 x 22 cm	60 packages (280/pk)
2932800	28 x 37 cm	188/pk

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