

■ Dust Off® Plus



pressurized cleaner with multidirectional nozzle

no CFC's, HCFC's

Flammable - 100% Ozone-Safe. **M**
Export: By Air Cargo or U.P.S. ground.

81500 Dust-Off Plus, 10 oz. can
with Valvereach

81505 Dust-Off Plus Refills,
10 oz.each

81504 Dust-Off Plus Valve only..each

■ Disposable Precision Duster



pressurized cleaner

100% HFC's. No CFC's, no HCFC's. Non-flammable, no residue, moisture free, nonabrasive, odorless. Zero ozone depletion potential. 10 ounce aerosol. Noncorrosive. Safe on most plastics. **M**

81600 Precision Duster, 10 oz. .each

M = MSDS on web page

■ High Velocity Precision Dusters



pressurized cleaner

100% HFC's. No CFC's, no HCFC's. Non-flammable, no residue, moisture free, non-abrasive, odorless, quad filtered. Inert and non-ozone depleting. 10 ounce (236ml) and 8 ounce (187ml) canisters. The "360°" canister can be inverted while spraying.

81400 High Velocity Duster,
10 oz.each

■ GUST Spray Anyway 360° Duster



"any angle" pressurized cleaner

GUST 360° Spray Anyway Duster lets you spray from any angle - even upside down - without frosting. Contains Dustex 11, a 100% ozone safe, non-abrasive, inert, moisture free, ultra clean gas for precision cleaning. Suitable for removing dust, lint and particulates from microscopes, cameras, precision parts, electronic equipment and other delicate parts from any angle. Delivers up to 80 psi blasts. 8 oz. (187ml) canister.

81410 GUST Spray Anyway 360°
Duster, 8 oz.each

■ GUST Easy Duster



pressurized cleaner

Nonflammable, ultra-clean, no residue, moisture free gas for removing dust and other particulates from samples, microscopy slides, lenses, film, optical instruments, electronic parts, etc. in laboratory, service and manufacturing applications with jets of pin-pointed gas. Contains Dustex 8, a 100% ozone safe, ultra-pure gas. Delivers up to 70 psi blasts. Large 12 oz. (283 ml) container for more cleaning action.

81710 GUST Easy Duster, 12 oz. each

■ Clean Jet 100 Dust Remover



pressurized cleaner

Nonflammable, ultra-filtered, no residue, ultra clean gas for precision removal of dirt, dust, lint and particulates. Suitable for delicate electronic devices, photographic equipment, microscopes, clean rooms and laboratories. Delivers up to 100 PSIA at 20°C (68°F). No HCFC's or CFC's. Net weight 284g (10 oz.).

81700-01 Clean Jet 100 Dust
Remover, 10 oz.each

CLEANING

Compressed Air Nozzles; Polishing and Cleaning Compounds

■ Compressed Air Gun and Accessories



800 Pistol Grip Nozzle and 804 Assortment, 5 Air Nozzle Tips, pkg/5

Can be used with dry compressed air or nitrogen. If a dry nitrogen line is available in the lab use this air gun to blow away dust particles.

Pistol Grip Nozzle

Great for all around use, gun has a hang-up hook and Brass safety tip with vents to let air escape.



803 Flex Air Hose, extremely flexible, 10' long, Nylon-covered braided air hose with 1/4" NPT female ends.

This blowgun meets OSHA requirement 1910.242 (b) directive 100-1 when used with this safety tip. The trigger control lets you vary airflow from a puff to a blast. Body is polished die cast aluminum with a nonslip vinyl surface pistol grip.

Specifications:

- Air inlet: 1/4" NPT Female with Male adaptor attached
- Maximum Pressure: 150 psi
- Air consumption @ 100 psi 20 cfm
- Air outlet: 1/8" NPT Female with safety nozzle attached

Product No. 804 Assortment, 5 Air Nozzle Tips

The 1/8" NPT Male end screws directly into Pistol Grip Nozzle to deliver a precision stream of air directly to your specimen.

The gauges of the nozzles are as follows

Needle	Nominal O.D.			Nominal I.D.		
	Gauge	mm	inches	tol. (in.)	mm	inches
	10	3.404	0.134	-0.0010	2.692	0.106
	13	2.413	0.095	"	1.803	0.071
	15	1.829	0.072	-0.0005	1.372	0.054
	18	1.27	0.05	"	0.838	0.033
	19	1.067	0.042	"	0.686	0.027

- 800** Pistol Grip Nozzleeach
804 Assortment, 5 Air Nozzle Tipseach
803 Flex Air Hose, 3m (10 ft.)each

■ Mini In-Line Desiccant Dryer/Filter



Turns wet dirty air into clean dry air with a four stage filter. 1st stage removes dirt, 2nd stage removes oil vapors, 3rd stage removes water vapor, and 4th stage removes residual desiccant dust.

Specifications:

- Housing Material: Polycarbonate material allows clear desiccant visibility
- Guard Material: Nylon
- Max Flow Capacity: 15 cfm
- Max Pressure: 125 psi
- Max Temperature: 130° F (WARNING: This device will collect moisture which could freeze and rupture the unit if used below 32°F.)
- Connections: 1/4" NPT/PTF (Hand tighten to a leak proof seal. Do not use any mechanical means to hold the dryer/filter and do not over torque the threads.)
- Dew Point: -40 °C
- Dimensions: 3-3/4" long x 1-11/16" diameter
- Weight: 2.8oz.

- 800-10** Mini In-Line Desiccant Dryer/Filtereach

■ Pikal Paste



Can be used to remove "hard" stains on metal, glass and enamels. Also used for precision polishing of parts with a narrow tolerance. Can be used on buffing wheels. Widely used to clean vacuum systems, deposition sources and stainless steel chambers. Can be applied to wipes or cotton swabs for polishing.

Test first when used on softer materials such as copper, aluminum and soft metal alloys.

- 893-10** Pikal Polishing Paste, 250 gram tineach

■ Pikal Care



Pikal Care is formulated as a thinner paste, supplied in a tube and is specially suitable for stainless steel products and surfaces. Can be supplied directly on the products and polished with wipes.

- 893-20** Pikal Care Polishing Paste, 250 gram tube . . .each

■ Pikal Liquid



Pikal Liquid is an emulsion for gentler polishing of a wide variety of materials such as brass, stainless steel, copper, aluminum and plated surfaces both with flat and curved surfaces. Pikal liquid is supplied in a can and the emulsion may be applied directly on the product to be polished or via a polishing wipe.

893-30 Pikal Liquid Polishing Emulsion, 300 gram caneach

■ Glaster Polish



Glaster Polish by Pikal is formulated as a gentle cleaning/polishing product for cleaning glass, tiles, gold/silver products or gold/silver plated products and porcelain. Glaster is supplied in a can and can be applied directly on the product to be polished or via a polishing wipe.

893-40 Glaster Cleaning/Polishing Emulsion, 300 gram caneach

■ Weol



Wenol® is widely used as cleaner and polish for electron microscope applications, ion beam systems, vacuum coating systems and general lab applications.

Originally formulated for use on hard metal surfaces such as stainless steel. The carrier fluid dissolves in most hydrocarbons and is easily removed. Wenol® is petroleum based and does not contain silicones. It is not recommended for use on soft metal such as aluminum. Same manufacturer as the discontinued POL.

892 Wenol Metal Polish, 100mleach

■ Twill-Jean Cleaning Cloths



the most popular EM cleaning cloth

Lintless, pure cotton, cut on a bias. For sensitive EM polishing and cleaning applications.

812-14 Twill-Jean Cleaning Cloths, Cotton, 10.2 x 10.2CM (4" x 4")pkg/300

812-16 Twill-Jean Cleaning Cloths, Cotton, 15.2 x 15.2CM (6" x 6")pkg/300

812-2 Twill-Jean Cleaning Cloths, Cotton, 22.9 x 22.9CM (9" x 9")pkg/100

812 Twill-Jean Cleaning Cloths, Cotton, 22.9 x 22.9cm (9" x 9")pkg/300

812-6 Twill-Jean Cleaning Cloths, Cotton, 43.2 x 43.2cm (17" x 17")pkg/75

■ Purity Wipes



Note: Insets are enlarged to show fabric detail

The standard Purity Wipes are Class 10 clean room compatible wipes and are comprised of 100% continuous polyester fiber that is especially clean and highly absorbent. The knit construction has been developed to insure the greatest product integrity and cleaning performance. Laundered to reduce particle generation and soluble extracts. Absorbency exceeds 200%. Basis Weight 105g/m². Color: white or blue.

81226 Purity Wipes, White, Standard Weight, 10.2 x 10.2cm (4" x 4")pkg/600

81228 Purity Wipes, White, Standard Weight, 15.2 x 15.2cm (6" x 6")pkg/300

81230 Purity Wipes, White, Standard Weight, 22.9 x 22.9cm (9" x 9")pkg/150

81236 Purity Wipes, White, Standard Weight, 22.9 x 22.9cm (9" x 9")pkg/100

Heavy Weight Purity Wipes

Heavy duty Purity Wipe which is also class 10 clean room compatible, similar fiber and knot but has a higher absorbance and is more durable than the standard Purity Wipes. Basis Weight 137g/m². Color : white.

81231 Purity Wipes, White, Heavy Weight, 10.2 x 10.2cm (4" x 4")pkg/600

81232 Purity Wipes, White, Heavy Weight, 15.2 x 15.2cm (6" x 6")pkg/300

81233 Purity Wipes, White, Heavy Weight, 22.9 x 22.9cm (9" x 9")pkg/150

ESD Safe, Electro Static Dissipative Purity Wipes



Note: enlarged to show fabric detail

The class 10 clean room compatible and highly absorbent static dissipative Purity Wipes are comprised of continuous filament polyester fiber that includes DuPont's NEGA-STAT® carbon yarn. The carbon yarn enhanced the electrical conductivity of the wipes, which promptly disperses electrical static. Basis Weight 115g/m². Color: white with gray stripes to designate ESD.

81238 ESD Safe Purity Wipes, White w/Stripes, Standard Weight, 10.2 x 10.2cm (4" x 4")pkg/600

81239 ESD Safe Purity Wipes, White w/Stripes, Standard Weight, 22.9 x 22.9cm (9" x 9")pkg/150

CLEANING

Wipes and Pads

■ TexWipe® All-purpose Cotton Wipes

For ISO Class 7 (Class 10,000 cleanroom) applications



Texwipe® wipes are 100% cotton woven from high quality, long-staple cotton fibers (no chemical additions) with tight-weave construction and a base weight of 175g/m². The twill patterned surface on both sides of the wipes traps and removes contaminants from the cleaned surface.

81446 TexWipe® Cloth, 6x6pkg/600

■ Poly-Jean® Wipes



Poly Jean is a highly absorbent clean room class 100 compatible wipe, manufactured of 100% polyester with a non-raveling 60 d interlock knit fabric. The absorbency for oil, water and solvents exceeds 200%. Color: white

81220 Poly-Jean® Wipes, Standard Weight, 22.9 x 22.9cm (9" x 9")pkg/150

81222 Poly-Jean® Wipes, Standard Weight, 15.2 x 15.2cm (6" x 6")pkg/150

81224 Poly-Jean® Wipes, Standard Weight, 10.2 x 10.2cm (4" x 4")pkg/600

■ Cheesecloth Wipes

in convenient dispenser box



Use to wipe, clean, or dry cuvettes, delicate glassware, syringes, pipets, and pH electrodes. They are ideal for filtering and do not fall apart like paper towels.

All-purpose cheesecloth wipes are brilliant white and certified 100% pure cotton of reagent-grade quality

and purity. A unique combination of cleanliness, softness, absorbency and strength. Will not scratch sensitive surfaces.

808-31 Cheesecloth Wipes, 10.1 x 10.1cm (4 x 4")pkg/200

808-32 Cheesecloth Wipes, 22.9 x 22.9cm (9 x 9")pkg/60

■ Pre-Moistened Cleaning Pads and Wipes

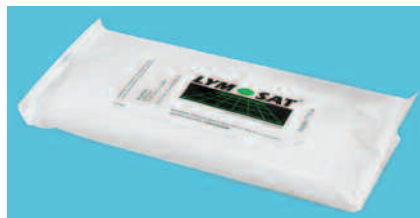
Lint Free Cleaning Pads, Pre-Saturated with 96% Isopropyl Alcohol



Individually packed, lint free cleaning wipes, saturated with 96% Isopropyl Alcohol and are safe for skin contact. Removes dust, dirt, oxides and most contaminants from instrumentation, tools and electronic equipment. Pad size is 3" x 4" in individually sealed packs.

81242 Lint Free Cleaning Pads, 96% Isopropyl Alcohol, 3"x4"pkg/60

Cleaning wipes size 9" x 11", Pre-Saturated with 70% Isopropyl Alcohol



Class 100 compatible cleaning wipes, pre-saturated with 70% Isopropyl alcohol and 30% deionized water. The fabric is constructed of continuous polypropylene fibers bonded with

together with a meltblown process. This ensures superior strength with low fiber and particulate generation.

81244 Lint Free Cleaning Pads, Polypropylene, 70% Isopropyl Alcohol, 9"x11"pkg/30

Cleaning wipes size 6" x 8.5", Pre-Saturated with 70% Isopropyl Alcohol



Class 100 compatible cleaning wipes, pre-saturated with 70% Isopropyl Alcohol and 30% deionized water. The fabric is a blend of polyester and cellulose hydroentangled to provide high strength without the use of binders, starches or thermal bonding. Low particulate, nonwoven absorbent structure.

81246 Cleaning Wipes, Polyester-Cellulose, 70% Isopropyl Alcohol, 6"x8.5", in polyethylene containerpkg/100

81246-20 Cleaning Wipes, Polyester-Cellulose, 70% Isopropyl Alcohol, 6"x8.5", refillpkg/100

■ Kimwipes®



Kimwipes, Small, 11.4 x 21.6cm (4.5 x 8.5")

808-1 Kimwipes, Small, 280/boxcase/12

Kimwipes, Large, 38 x 43cm (15 x 17")

808-2 Kimwipes, Small, 280/boxbox/140

■ Holder - Dispenser for Kimwipes®



Holds one box of the Small Kimwipes, 11.4 x 21.6cm (4.5" x 8.5") size. Center column keeps tissues pushed up to the top for easier dispensing.

808-10 Holder - Dispenser for Kimwipeseach

■ MultiWipes™



An alternative laboratory wipe, at large savings. Wipes are made from 100% recycled paper fibers.

MultiWipes Small, 11.4 x 21.1cm (4.5 x 8.3")

809-1 MultiWipes, Small, 280/boxcase/12

MultiWipes Large, 38.1 x 42.2cm (15 x 16.6")

809-2 MultiWipes, Largebox/140

■ PELCO® Lens Paper

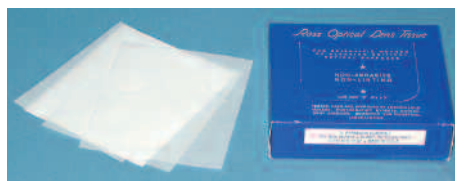


Excellent optics cleaning of light microscopes. Manufactured to high standards and may be used in EM laboratories for general cleaning, or on liquid troughs for

"skimming" surfaces. Virtually lint-free. 50/booklet. 10 x 15.2cm, (4 x 6").

810 PELCO® Lens Paper, booklets of 50 shts . . .pkg/12

■ Ross Optical Lens Tissue



Non-abrasive. Processed from 100% linen stock; free of mineral and vegetable filler. Does not lint or scratch and will not disinte-

grate under vigorous manipulation.

Ross Lens Tissue, Regular, 10.8 x 12.7cm (4-¼ x 5")

811 Ross Lens Tissue, Regular, 800/boxbox/800

Ross Lens Tissue, Large, 21.6 x 35.6cm (8-½ x 14")

811-3 Ross Lens Tissue, Largepkg/100

■ 3M Lens Cleaning Cloth



Lint-free and Scratch-free! The unique 3M microfibers lift dust and oils from delicate lenses without the use of chemicals. Ideal for eyeglass lenses, camera lenses, binoculars, microscopes and other delicate surfaces. The cloth is

reusable and machine washable hundreds of times. Individually packaged 18 x 16cm (7 x 6") cloths, 10 to a box, two boxes (20 cloths) per case. Note: Cloths will not scratch surfaces, but can pick up particles that do scratch. Each box contains multiple colors; blue, yellow and gray. Go to Sparkle Optical Lens Cleaner.

813-20 3M Lens Cleaning Clothcase/20

■ Selvyt Cloth



Lint-free and static-free cloth. Useful for general purpose cleaning of metal surfaces. 25 x 25cm (9.8 x 9.8")

812-5 Selvyt Clotheach

CLEANING

High Performance Cloth; Scotch-Brite™ Hand Pads; Bell Jar Kleen, Glass Cleaner

■ 3M Scotch-Brite™ High Performance Cloth



Provides ultra cleaning power because of its knitted interwoven design of water- and oil-absorbing microfibers that lift and trap liquids, grease, dust and dirt particles, even without chemicals. Unprecedented dry dusting and damp polishing ability. Machine washable, dryer safe. Size: 32 x 36cm (12.6 x 14.2"). Colors: Blue, Red, White, Green, Yellow.

- 813-10** Scotch-Brite High Performance Cloth, Bluepkg/5
- 813-11** Scotch-Brite High Performance Cloth, Redpkg/5
- 813-12** Scotch-Brite High Performance Cloth, Whitepkg/5
- 813-13** Scotch-Brite High Performance Cloth, Greenpkg/5
- 813-14** Scotch-Brite High Performance Cloth, Yellowpkg/5

■ 3M Scotch-Brite™ Hand Pads



versatile, non-rusting abrasive pads for use on metals, ceramics and composites

These renowned abrasive cleaning pads are made of tough non-woven open nylon web with embedded abrasive particles. The Scotch-Brite(™) pads are water-proof and they can be used wet or dry. They are designed to provide consistent performance from start

to finish, leaving a uniform surface. The open web construction will not rust like steel wool and can be rinsed and used repeatedly. Size 15.2 x 22.9cm (6 x 9"). They are available in 5 grades, ranging from a medium/coarse grade for heavy duty cleaning applications to an ultra-fine grade for light cleaning applications and final surface finishing. For soft materials, such as brass and aluminum the finer grades should be used.

Applications include:

- Cleaning of Bell Jars
- Cleaning of worktops, ceramic tiles and sinks

- Cleaning of laboratory tools such as heaters, beakers and mixers
- Cleaning prior to soldering or welding
- Masking or removing surface imperfections
- Blending of scratches on vacuum components
- Cleaning of stainless vacuum components
- Removing light rust/paint
- Deburring and removing sharp edges
- Surface finishing
- Cleaning of Bell Jars

Intermediate pad for cleaning, finishing and graining:

- 80927** 3M Scotch-Brite™ Pads #6444, Extra Duty, finebox/20

Most universal pad. Excellent starting pad:

- 80926** 3M Scotch-Brite™ Pads #7444, General Purpose, very finebox/10

Fine mineral excellent for fine finish and light cleaning:

- 80929** 3M Scotch-Brite™ Pads #7445, Light Duty, st-finebox/20

Finest pad available for final finishing and ligh cleaning:

- 80930** 3M Scotch-Brite™ Pads #7448, Ultra-Finebox/20

■ PELCO Bell Jar Kleen™



PELCO Bell Jar Kleen™ is a non-scratching polishing and cleaning compound specially formulated for glass and porcelain surfaces. Ideally suited for cleaning glass bell jars used on vacuum evaporators, vacuum chambers from sputter and carbon coaters and glass windows in large coating systems. Can be used on vacuum chambers made from Corning, Schott or Pyrex glass.

- 896** PELCO Bell Jar Kleen, 14 oz.each

■ Sparkle Glass Cleaner



Ammonia-free de-ionized formula works without streaking. For glass, stainless steel, plastics, etc.

- 80920** Sparkle Glass Cleaner, 1 liter (33.8 fl. oz.)each

■ Invisible Glass, Premium Glass Cleaner



Invisible Glass was developed with two important objectives: superior cleaning power and "invisible" clarity. It is engineered with a powerful multi-component formula to quickly remove fingerprint, dust, plasticizer film, oily dirt, pollutants and other difficult grime. Invisible glass does not contain soaps, foams, scent or dyes to avoid leaving residue or haze on the cleaned surface. Can be used to clean glass, mirrors, displays, monitors, fume hoods, porcelain, etc. Also gives excellent results for cleaning lab bench surfaces. For best results, spray on surface and wipe with a lint free cloth or wipe (see cleaning cloths).

On delicate or difficult to reach surfaces, spray the cloth or wipes first and then wipe the surface.

80922 Invisible Glass, Premium Glass Cleaner,
.56 liter (19 fl. oz.)each

■ Invisible Glass, Premium Glass Cleaner



Same as above but in pump spray container.

80922-10 Invisible Glass, Premium
Glass Cleaner,
643 ml (22 fl. oz.)each

■ Sparkle Optical Lens Cleaner



A transparent non-amonia, non-alcohol, safe cleaner for high tech lenses. Apply Sparkle Optical Lens Cleaner to surface to be cleaned and wipe with clean Lens Cleaning Cloth. Excellent for microscopes, magnifiers, eye glasses and safety goggles. Do not use on contact lenses. Anti-Static properties limit dust attraction. Testimonials from universities and private labs as the first non-alcohol product that is safe for objective lens use.

80919 Sparkle Optical Lens Cleaner,
119.4 ml (4 oz.)each

■ 3M Adhesive Remover



Powerful replacement for mineral spirits, solvents and other unfriendly cleaners. Ideally suited for removing used grinding/lapping/polishing discs with PSA backing from their support discs. New food-grade citrus based 3M adhesive remover is also very effective in removing overspray of any aerosol adhesives, grease, oil, grime, tape residue, tar, wax, etc. A solvent-free formulation that provides wipe-away convenience with no filmy residue. No CFC's.

Active ingredient is listed as GRAS (Generally Regarded As Safe) for food contact applications under FDA21 CFR 182.20.

Flammable propellent (propane). Note: not for sale in California.

80924 3M Adhesive Remover, 6.25 oz. canscase/6

80924-1 3M Adhesive Remover, 18.5 oz. caneach

80924-10 3M Adhesive Remover, 18.5 oz. cancase/10

■ Scotch® Sticker and Marker Remover



convenient and handy small size

A pH neutral pen that is a citrus based adhesive remover, which also removes sticker, stains, printer and marker blemishes. No petroleum distillates. Note: not for sale in California.

80924-20 Scotch® Sticker and Marker
Remover Peneach

■ CUT Non-chlorinated Cleaner and Degreaser



Powerful, precision cleaner and degreaser that removes grease, oils, waxes, inks, tars and silicone oils from instruments, tools, metal parts, rotary vacuum pumps, etc. Developed as an alternative to chlorinated solvents for precision cleaning. Non-chlorinated formula cleans fast and saves time. Dries fast, leaves no residue. Does not contain CFC's.

80921 CUT Non-chlorinated Cleaner
and Degreaser,
340 g (12 oz.)each

CLEANING

Degreaser; Natural Cleaner; Alconox® Cleaners

■ All Citrus Cleaner and Degreaser



This all natural precision cleaner is typically used as a degreaser for removing resins, grease, oils, adhesives, ink, silicones and contaminants from instruments, machinery, engines, tools and metal parts. Made entirely from a highly refined extract of citrus fruits which are more environmentally friendly than petroleum based products. Does not contain CFC's.

80923 All Citrus Cleaner and Degreaser, 341 g (12 oz.)each

■ XENIT All Natural Cleaner and Remover



XENIT contains a proprietary cleaning formula with Citrus 66™ - an all natural, highly refined extract of citrus fruits. Developed to quickly remove adhesives, labels, stickers, tape, grease, ink and permanent marker from a wide variety of materials. Does not contain CFC's.

80925 XENIT All Natural Cleaner and Remover, 283 g (10 oz.)each

Alconox®

biodegradable, concentrated, interfering residue free

Alconox detergents set the standards for critical cleaning. Scientists, engineers, and professionals specify Alconox detergents in their cleaning procedures for optimum economy, environmental safety and performance.

■ Alconox® Powdered Precision Cleaner



Concentrated, anionic detergent for manual and ultrasonic cleaning. Free rinsing to give you reliable results without interfering residues. Ideal for cleaning contaminants from glassware, metals, plastic, ceramic, porcelain, rubber and fiberglass. Excellent replacement for corrosive acids and hazardous solvents. USDA authorized. Dilute 1:100. pH 9.5. **M**

81125 Alconox® Powdered Cleaner, 4 lbeach

M = MSDS on web page

■ Liqui-Nox® Critical Cleaning Liquid Detergent from Alconox



Concentrated, anionic detergent for manual and ultrasonic cleaning. Free rinsing to give you reliable results without interfering residues. Extremely mild and completely soluble in hard and soft water. USDA authorized. Dilute 1:100. pH 8.5.

81126 Liqui-Nox® Cleaning Liquid Detergent, 1 gal. bottleeach

■ Alcotabs® Critical Cleaning Detergent Tablets, from Alconox



Effervescent detergent tablet for maximum cleaning in syphon pipette washers to clean pipettes and tubes. Slow release bubble action and free rinsing produce reliable results and no interfering residues. USDA authorized. pH 6.5.

81127 Alcotabs® Cleaning Detergent Tablets, jar/100each

■ Citranox® Liquid Acid Cleaner and Detergent, from Alconox



Phosphate free, concentrated cleaner and metal brightener for high performance removal of metal oxides, scale, salts and inorganic residues in manual and ultrasonic cleaning. Corrosion inhibited and free rinsing for reliable results and no interfering residues. Ideal for trace metal analysis. USDA authorized. Dilute 2:100. pH 2.5.

81128 Citranox® Liquid Acid Cleaner, 1 gal. bottleeach

■ Luminox® Low Foaming Neutral Cleaner, from Alconox



Low foaming, neutral pH detergent for use in manual, ultrasonic and machine cleaning. Safe-handling detergent used for non-corrosive cleaning without chelation or alkalinity waste treatment problems. Recommended for aluminum and soft metal, medical devices, pharmaceutical equipment, alkaline sensitive labware, and medical instruments in aluminum trays. Free rinsing, eliminating interfering residues. Dilute 3:100. pH 7

81129 Luminox® Neutral Cleaner, 1 gal. bottleeach

■ Terg-A-Zyme® Enzyme Active Powdered Detergent



Concentrated, anionic detergent with protease enzyme for manual and ultrasonic cleaning. Excellent for removal of proteinaceous soils, tissue, blood and body fluids from glassware, metals, plastic, ceramic, porcelain, rubber and fiberglass with no interfering residues. Ideal as a cleaning agent in Reverse Osmosis and Ultra-Filtration Systems. USDA authorized. Dilute 1:100. pH 9.5.

81131 Terg-A-Zyme® Powder Detergent, 4 lb. boxeach



■ Epoxy Hand Cleaner

Premium, heavy duty cleansing agent, formulated to speed the removal of all types of epoxy residue. Contains mineral spirits and isopropyl alcohol. It effectively dissolves epoxy, polyester, urethane, lacquer, grease, oil and many other hard to remove soils. 450ml (15 fluid oz.) bottle.

19972 Epoxy Hand Cleaner, 450ml . . .each



■ Professional Paint, Stain, Epoxy Hand Cleaner

Don't clean your hands with dangerous paint thinners or other harsh chemicals.

GoJo is the safer way to clean your hands. Thoroughly cleans stains, varnishes, dyes, inks, sealers, adhesives, acrylic enamel, acrylic lacquer, acrylic urethane, enamel, epoxy, lacquer, latex, oil base, single component polyurethane paints, primers, plastic filler and putty. 650ml (22 fluid oz.) bottle. Non-Toxic.

19978 GoJo Paint and Stain Hand Cleaner, 650mleach



■ Barrier Cream 222®

skin protectant with silicone

For wet or dry work, helps protect skin against many sticky, staining, irritating industrial substances. 222® is not readily removed by many water based or oil based substances. To remove wash vigorously with soap and water. Tube of 118ml (4 fl. oz.).

19974 Barrier Cream 222®, 4 fl. oz.each

Branson Ultrasonic Cleaners



Precision Cleaning Power

Ultrasonic cleaning is faster, more thorough and safer than most other methods. Scrubbing, soaking and steam don't even come close. It is powerful enough to remove proteins,

waxes and heavy oils. It penetrates to deflux circuit boards and SMDs, yet is gentle enough to clean tiny precision assemblies.

De-gas Feature

Helpful at start-up. Ultrasonic pulses, activated before cleaning begins, remove unwanted air bubbles from the solution. This gives better results due to higher cleaning efficiency.

Digital Feature

Control of cycle time and temperature with clear readouts and one-touch setting. Maintains batch-to-batch consistently because the Cleaner resets automatically to the last time and temperature settings.

Accessories

Developed to make specimen handling easier. The most effective cleaning action occurs about one inch (2.5cm) from the tank's bottom. Using a tray gives more beneficial cleaning power.

■ Ultrasonic Cleaner Model 1510 (½ gal.)



Tank Size: 139.7 x 152.4 x 101.6mm (5.5 x 6 x 4")

Overall Size: 254 x 304.8 x 292mm (10 x 12 x 11.5")

Tank Capacity: 1.91L (½ gal.)

Weight: 3.18kg (7 lbs.)

Frequency: 40kHz

Cover included

(UL, CSA, ISO 9001 certified)

Mechanical Timer, 80 watts

17670 Ultrasonic Cleaner, Model 1510, 120 VAC .each

17670-2 Ultrasonic Cleaner, Model 1510, 230/240 VACeach

Mechanical Timer plus Heater, 143 watts

17672 Ultrasonic Cleaner, Model 1510, 120 VAC .each

17672-2 Ultrasonic Cleaner, Model 1510, 230/240 VACeach

continued next page

CLEANING

Ultrasonic Cleaners, Beakers for Ultrasonic Cleaners

Ultrasonic Cleaner Model 1510, *continued*

Digital Control Plus Heater, De-gas and Digital Timer, 143 watts

- 17674** Ultrasonic Cleaner, Model 1510, 120 VAC .each
- 17674-2** Ultrasonic Cleaner, Model 1510, 230/240 VACeach

Model 1510 Accessories (½ gallon + 1.91 liters)



- 17301** Solid Insert Tray (½ gal)each
- 17302** Perforated Insert Tray (½ gal)each
- 17303** Mesh Basket (½ gal)each
- 17304** Tank Cover (½ gal)each
- 17311** Beaker Holder, 1 x 600mleach

■ Polypropylene, Pyrex® and Stainless Steel Beakers for use with Ultrasonic Cleaners



The Pyrex® and Polypropylene beakers are graduated in ml. Easy pour lip on all four. All listed below will work with ultrasonic cleaners.

- 17329** Pyrex® Beaker, 250mleach
- 17309** Pyrex® Beaker, 400mleach
- 17327** Pyrex® Beaker, 600mleach
- 17328** Stainless Steel Beaker, 600mleach
- 17328-1** Beaker Cover for 17328each
- 17310** Polypropylene Beaker, 400mleach

■ Ultrasonic Cleaner Model 2510 (¾ gal.)



Tank Size: 241.3 x 139.7 x 101.6mm (9.5 x 5.5 x 4")
 Overall Size: 343 x 304.8 x 292mm (13.5 x 12 x 11.5")
 Tank Capacity: 2.81L (¾ gal.)
 Weight: 4.07kg (9 lbs.)
 Frequency: 40kHz
 Cover included
 (UL, CSA, ISO 9001 certified)

Mechanical Timer, 130 watts

- 17678** Ultrasonic Cleaner, Model 2510, 120 VAC .each
- 17678-2** Ultrasonic Cleaner, Model 2510, 230/240 VACeach

Mechanical Timer Plus Heater, 239 watts

- 17680** Ultrasonic Cleaner, Model 2510, 120 VAC .each
- 17680-2** Ultrasonic Cleaner, Model 2510, 230/240 VACeach

Digital Control Plus Heater, De-gas and Digital Timer, 239 watts

- 17682** Ultrasonic Cleaner, Model 2510, 120 VAC .each
- 17678-2** Ultrasonic Cleaner, Model 2510, 230/240 VACeach

Model 2510 Accessories (¾ gallon / 2.8 liters)



- 17321** Solid Insert Tray (¾ gal)each
- 17322** Perforated Insert Tray (¾ gal)each
- 17323** Mesh Basket (¾ gal)each
- 17324** Tank Cover (¾ gal)each
- 17325** Beaker Holder, 2 x 600mleach
- 17326** Beaker Holder, 2 x 250mleach

■ Ultrasonic Cleaner Model 3510 (1.5 gal.)



Tank Size: 292.1 x 152.4 x 152.4mm (11.5 x 6 x 6")

Overall Size: 16 x 12 x 15.5" (406.4 x 304.8 x 368.3mm)

Tank Capacity: 5.71L (1.5 gal.)

Weight: 5.44kg (12 lbs.)

Frequency: 40kHz

Cover included

(UL, CSA, ISO 9001 certified)

Mechanical Timer, 130 watts

17686 Ultrasonic Cleaner, Model 3510, 120 VAC .each

17686-2 Ultrasonic Cleaner, Model 3510, 230/240 VAC .each

Mechanical Timer Plus Heater, 335 watts

17688 Ultrasonic Cleaner, Model 3510, 120 VAC .each

17688-2 Ultrasonic Cleaner, Model 3510, 230/240 VAC .each

Digital Control Plus Heater, De-gas and Digital Timer, 335 watts

17690 Ultrasonic Cleaner, Model 3510, 120 VAC .each

17690-2 Ultrasonic Cleaner, Model 3510, 230/240 VAC .each

Model 3510 Accessories (1.5 gallon / 5.71 liters)



17331 Solid Insert Tray (1-½ gal) .each

17332 Perforated Insert Tray (1-½ gal) .each

17333 Mesh Basket (1-½ gal) .each

17334 Tank Cover (1-½ gal) .each

17335 Beaker Holder, 2 x 600ml .each

17337 Beaker Holder, 3 x 250ml .each

■ Ultrasonic Cleaner Model 5510 (2.5 gal.)



Tank Size: 292.1 x 241.3 x 152.4mm (11.5 x 9.5 x 6")

Overall Size: 406.4 x 393.7 x 368.3mm (16 x 15.5 x 14.5")

Tank Capacity: 11.37L (2.5 gallon)

Weight: 6.34kg (14 lbs.)

Frequency: 40kHz

Cover included

(UL, CSA, ISO 9001 certified)

Mechanical Timer, 185 watts

17818 Ultrasonic Cleaner, Model 5510, 120 VAC .each

17818-2 Ultrasonic Cleaner, Model 5510, 230/240 VAC .each

Mechanical Timer Plus Heater, 469 watts

17820 Ultrasonic Cleaner, Model 5510, 120 VAC .each

17820-2 Ultrasonic Cleaner, Model 5510, 230/240 VAC .each

Digital Control Plus Heater, De-gas and Digital Timer, 469 watts

17822 Ultrasonic Cleaner, Model 5510, 120 VAC .each

17822-2 Ultrasonic Cleaner, Model 5510, 230/240 VAC .each

Model 5510 Accessories (2.5 gallon / 11.37 liters)



17341 Solid Stainless Steel Insert Tray (2-½ gal) .each

17345 Beaker Holder, 4 x 600ml .each

CLEANING

Ultrasonic Cleaners, Ultrasonic Cleaning Solutions

■ Compact Ultrasonic Cleaner B-3 (1 pint)

intermediate ultrasonic cleaning, for smaller labs



UL, CSA, ISO 9001 certified

Model B-5 available for 220 volt service

Capacity: 0.47 liters (1 pint)

Housing: 12.7 x 12.7 x 15.9cm (5 x 5 x 6-¼") (L x W x H)

Stainless tank: 7.6cm deep x 8.9cm diameter (3 x 3-½")

Smaller Cleaner for smaller jobs than the 1210-2210-3210 series. Furnished with small parts holder. Approximately 50 watts (UL).

Hint: If you run the cleaner for 1-2 minutes and allow degassing of the cleaning solution before inserting parts, quicker and more effective cleaning will occur. Warm water helps.

17030 Ultrasonic Cleaner, B-3, 120 VACeach

17031 Ultrasonic Cleaner, B-5, 230 VACeach

■ Small Ultrasonic Cleaner B-200 (15 oz.)



Capacity: 0.42 liters (15 oz.)

Housing: 21.3 x 11.1 x 11.7cm (8-⅝ x 4-⅞ x 4-⅝") (L x W x D)

Stainless tank: 16.5 x 8.9 x 5.0cm (6-½ x 3-½ x 2") (L x W x D)

Useable dimensions within working basket: 15.9 x 8.3 x 42cm (6-¼ x 3-¼ x 1.65") (L x W x D).

UL, CSA, ISO 9001 certified

practical working shape for many items such as eyeglasses and other smaller applications. Comes with small parts holder. Approximately 50 watts.

17108 Ultrasonic Cleaner, Model B-200, 120 VAC .each

17108-2 Ultrasonic Cleaner, Model B-200, 230 VAC .each

PELCO Kleenasonic™ Ultrasonic Cleaning Solutions

All PELCO Kleenasonic™ ultrasonic cleaning solutions are formulated for high performance cleaning, are environmentally friendly, concentrated to reduce shipping costs and do not require hazardous shipping.



■ PELCO Kleenasonic™ WRS Wax Stripper

PELCO Kleenasonic™ WRS is an environmentally friendly cleaning compound in powder form formulated for removing mounting waxes used in specimen preparation, semiconductor processing and casting. Needs to be dissolved in water to make the cleaning solution. (makes 2.67 gal)

17388 PELCO Kleenasonic™ WRS, 1 lb.each



■ PELCO Kleenasonic™ APC Ultrasonic Cleaning Detergent

PELCO Kleenasonic™ APC is a powerful liquid detergent for ultrasonic cleaning of semiconductor, silicon, glass and electronic materials/parts. The detergent formulation is of the multiple acting type with especially good solvent action. It possesses high sequestering ability, strong surface activity, good suspension and emulsification properties. (makes 8 gallons)

17385 PELCO Kleenasonic™ APC, 1 qteach



■ PELCO Kleenasonic™ CDC Ultrasonic Cleaning Powder Concentrate

PELCO Kleenasonic™ CDC is a high performance, heavy-duty ultrasonic yet environmentally friendly cleaning powder. Fast acting, long lasting and saves costs, space and time. It is easy to handle, completely biodegradable, odorless, ammonia-free and non-flammable. PELCO

Kleenasonic™ CDC cleans and degreases and can be used for removing oils, greases, fingerprints, dust, packaging particulates, soils and buffing and polishing compounds. (makes 75 gal)

17386 PELCO Kleenasonic™ CDC, 2 lb.each

Branson Ultrasonic Cleaning Solutions



■ MC-1 Metal Cleaner

Biodegradable, phosphate and caustic free alkaline cleaner formulated for heavy duty industrial use. Removes oils, greases and a wide variety of soils from aluminum and aluminum alloys as well as copper, brass, and steel substrates. Effective in removing stamping and cutting lubricants, and light polishing media. MC-1 displaces soils and floats them to the surface for easy removal with a skimmer. Corrosive (contains phosphates), Use 3 to 10% concentration by volume, 7% optimum (1 quart makes 3.5 gallons @ 7%). **M**

- 17360** MC-1 Metal Cleaner,
1 gallon solution concentrateeach
- 17360-1** MC-1 Metal Cleaner,
1 quart solution concentrateeach

■ JC Jewelry Cleaner

Biodegradable, phosphate-free alkaline cleaner for cleaning jewelry and precious metals. Removes general soils, particulates, fingerprints, oils, and oxides that accumulate with normal use. Gemstones and precious metals alike are quickly and safely restored to their original brilliance with this free-rinsing solution. Corrosive (contains sodium metasilicate), 1 quart (0.95L) makes 3 gallons (10.8L). **M**

- 17374** JC Jewelry Cleaner (soils, prints, gems, rings),
1 quart solution concentrateeach

■ GP - General Purpose Cleaner

Biodegradable caustic-free alkaline cleaner. Removes general soils, fingerprints, dust, packaging particulates, and light oils and greases from components in general manufacturing areas, instrument shops, telecommunications applications, and other light industrial manufacturing and fabricating facilities. Corrosive (contains sodium metasilicate), 1 quart (0.95L) makes 3 gallons (10.8L). **M**

- 17381** GP General Purpose Cleaner Solution,
1 quart solution concentrateeach

■ OR - Oxide Remover

Blend of detergents and acidic chemistries which is both phosphate-free and biodegradable. Rapidly removes rust and oxides from all metals. It is used in cleaning and reconditioning materials and components requiring removal of oxides that result from storage or assembly operations. 1 gallon (3.8L) makes 16 gallons (60.8L). **M**

- 17382** OR Oxide Remover (rust, metal oxides),
1 gallon concentrateeach

■ IS - Industrial Strength Cleaner

Biodegradable phosphate and caustic-free alkaline cleaner for heavy industrial use. Removes grease, oils, and particulates from automotive, aircraft, and similar mechanical components; oils and lubricants from machined parts and stampings in machine and metalworking shops. It is often used by chemical plants, petrochemical refineries, appliance factories, telecommunications equipment producers, printing plants, and other industrial manufacturing and fabricating facilities. Corrosive (contains sodium metasilicate). **M**

- 17383** IS Industrial Strength Cleaner (cutting oils, metal chips, grease, carbon), 1 galloneach
- 17383-1** IS Industrial Strength Cleaner (cutting oils, metal chips, grease, carbon), 1 quarteach

■ OC - Optical Cleaner

Alkaline, non-foaming, liquid detergent formula for the optical, glass and lens manufacturing industry. Removes general soils, fingerprints, cerium oxide, pitch, and blocking waxes from optical lenses. It is very effective in removing polishing compounds from glass and optical surfaces prior to deposition of coatings. **M**

- 17380** OC Optical Cleaner, 1 galloneach

The Etching Effects of Solutions on Common Metals / Alloys							
Solution	Steel	Brass	Aluminum	Magnesium	Zinc	Stainless Steel	Tin
MC-1 Metal	none	none	none	none	none	none	none
JC Jewellery	none	none	none	none	none	none	none
GP General Purpose	none	none	slight attack	none	none	none	none
OR Oxide Remover	slight etch	none	slight attack	attacks	attacks	none	none
IS Industrial Strength	none	none	slight attack	none	none	none	none
OC Optical	none	none	none	none*	none	none	none*

* No effect if solution temperature is less than 60°C (140° F).

Solution concentrations may vary. The amount used depends on the particular solution and the type of soil to be removed. Follow the instructions on the solution container.

M = MSDS on web page

CLEANING

Dusters, Pressurized Cleaners, Compressed Air Nozzles

■ Applicator Sticks/Cotton Swabs



Hardwood, cotton-tipped on one end, 2 sizes. Can be used for cleaning delicate parts together with our Polishing Compounds.

80903 Applicator Sticks, Cotton Tipped, 7.6cm (3")box/1000

80907 Applicator Sticks, Cotton Tipped, 15.2cm (6")box/1000

■ Cotton Swabs, Round, Double Head



Round cotton heads with polypropylene Handles. Packaged 100 pieces in a polypropylene dispensing box with closing lid. Total length is 7.6cm (3").

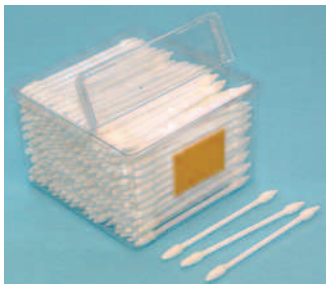


80910 Cotton Swab, Round, Double Head, 7.6cm (3") ..box/100

■ Cotton Swabs, Pointed, Double Head



Pointed cotton heads with polypropylene Handles. Packaged 240 pieces in a polypropylene dispensing box with closing lid. Total length is 7.6cm (3").



80911 Cotton Swab Pointed, Double Head, 7.6cm (3") ..box/240

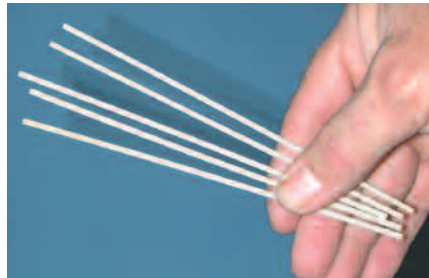
■ Orangewood Sticks



Flat on both ends. Orangewood keeps a fine point, resists breaking. 4mm ($\frac{1}{8}$ ") diameter x 17.8cm (7") long. Useful for specimen preparation, sorting, and cleaning of large apertures.

116-5 Orangewood Stickspkg/12

■ Round Wooden Applicator Sticks



Applicator sticks made of birch wood, natural, not treated with chemicals.

Size: 2.4 x 150mm ($\frac{3}{32}$ x 6")

128-2 Round, Wooden Applicator Sticks, plainpkg/1000

■ Stirring Sticks



depressor type stick

Mix, stir, scrape. Hardwood depressors provide strength and a clean, smooth finish. Made of white birch with a wax finish.

128-4 Wood Stirring Sticks, Medium, $\frac{5}{8}$ "W x 5- $\frac{1}{2}$ "L (16 x 140mm)pkg/100

128-5 Wood Stirring Sticks, Small, $\frac{3}{8}$ "W x 4- $\frac{1}{2}$ "L (10 x 114mm)pkg/1000

128-6 Wood Stirring Sticks, Large, $\frac{3}{4}$ "W x 6"L (19 x 152mm)pkg/500

■ Bamboo Splints



A neat way to hold tissue for mincing. May also be used for cleaning apertures or as an applicator stick. Pointed on one end.

116 Bamboo Splints, 15cm longpkg/100

■ Wooden Picks



Cleaned, packaged in a clear dispenser with exit hole to keep the picks clean. Useful for picking, cleaning, sorting and holding. Double-pointed, 65mm L (2- $\frac{1}{2}$ ").

11620 Wooden Picksbox/100

Industrial Cleaning Applicators

Choose from swabs that have a completely static free construction or feature an anti-static foam head. Static dissipative swabs attract dust and dirt for easy cleaning, while reducing and dissipating static electricity.

■ Anti-Static Foam Tipped Applicators



Anti-Static Polyolefin

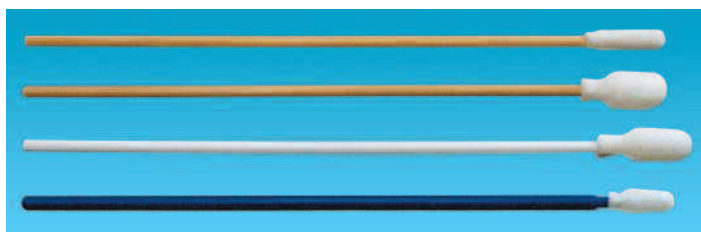


Anti-Static Wood

Anti-Static properties will not decay over time. Swabs meet all industry standards and requirements ASTM-D257 and Federal test method 4046, standard 101C.

- 81520** Anti-Stat Polyolefin 5- $\frac{1}{8}$ " Long,
Rectangular Tip, $\frac{1}{16}$ x 1 x $\frac{3}{8}$ " thickpkg/50
- 81522** Anti-Stat Polyolefin 6" Long,
Tip $\frac{3}{16}$ x $1\frac{1}{16}$ "pkg/50
- 81524** Anti-Stat Wood 6" Long,
Tip $\frac{3}{16}$ x $1\frac{1}{16}$ "pkg/50
- 81526** Anti-Stat Wood 6" Long,
Tip $\frac{3}{8}$ x $1\frac{3}{16}$ "pkg/50

■ Chemical Resistant Applicators



The tips are specially designed to withstand many of the chemicals and solutions commonly used in clean rooms.

Foam tips are resistant to deterioration - they will not swell or break apart. Wood or polypropylene shafts.

- 81530** Chem-Resist Applicators,
Wood Shaft 6" L, Tip $\frac{3}{16}$ x $1\frac{1}{16}$ "pkg/50
- 81532** Chem-Resist Applicators,
Wood Shaft 6" L, Foam over cottonpkg/50
- 81534** Chem-Resist Applicators,
Polyprop. 6" L, Foam over cottonpkg/50
- 81536** Chem-Resist Applicators,
Polyprop. 6" L, Spatula end tippkg/50

■ Wide Foam Tipped Applicators



Rectangular and round tips are made from 100% urethane foam designed to stand up to solvents and rigorous conditions. Shafts are polypropylene. Foam heads are thermally bonded to shafts.



- 81440** W-F-T Applicators, 5" shaft,
Rectangular Tip, $\frac{1}{16}$ x 1" Lpkg/50
- 81442** W-F-T Applicators, 5" shaft,
Rectangular Tip, $\frac{9}{16}$ x $1\frac{15}{16}$ " Lpkg/50
- 81444** W-F-T Applicators, 5" shaft,
Round Tip, $2\frac{9}{32}$ x $\frac{1}{8}$ " Lpkg/50

■ Polyester Tipped Applicators



From top to bottom:

- $\frac{1}{16}$ " (1.6mm) wide with 3" (76.2mm) L acetal handle
- $\frac{1}{8}$ " (3.2mm) wide with 3" (76.2mm) L polypropylene or acetal handle
- $\frac{1}{4}$ " (6.2mm) wide with 3" (76.2mm) L polypropylene handle
- $\frac{1}{4}$ " (6.2mm) wide with 6" (152.4mm) L polypropylene handle



enlarged view of Prod. No. 81669, $\frac{1}{8}$ " wide symmetrical tip

Made with double-ply non-woven polyester material bonded to polypropylene or acetal handles. Free from volatile residues, particulates and lint. Six different shapes and sizes. Use them to dust or clean wafers, fiber optics, medical devices, disk drives.

- 81660** Polyester Tipped Applicator, 6" L,
Paddle, $\frac{3}{8}$ " tip, Polypropylene Handlepkg/50
- 81662** Polyester Tipped Applicator, 6" L,
 $\frac{1}{4}$ " tip, Polypropylene Handlepkg/100
- 81664** Polyester Tipped Applicator, 3" L,
 $\frac{1}{4}$ " tip, Polypropylene Handlepkg/100
- 81666** Polyester Tipped Applicator, 3" L,
 $\frac{1}{8}$ " tip, Polypropylene Handlepkg/100
- 81668** Polyester Tipped Applicator, 3" L,
 $\frac{1}{16}$ " tip, Acetal Handlepkg/100
- 81668** Polyester Tipped Applicator, 3" L,
 $\frac{1}{8}$ " tip, Acetal Handlepkg/100

CLEANING

Blade Cleaning Tools, Cleaning Brushes

Diamond and Sapphire Knife, Steel Blade and Scalpel Cleaning Tools

■ Pithwood



For cleaning diamond knife edge.

117-5 Pithwood Stickspkg/10

■ PELCO® Diamond Knife and Blade Cleaning Tools



Material specially developed for cleaning debris from diamond knives. Works also very well on sap-

phire knives, scalpel blades, microtome blades, Vibratome blades, diamond scribes and minitools. The PVA material wicks liquids instantaneously. The sponge type material stays rigid when using alcohol as cleaning fluid and assists in removing debris from the knife edge. When water is used the material becomes soft and a wiping cleaning action can be applied. May be used multiple times

wedged tip on a plastic holder

block with rounded ends 1-½ x ¾ x ½"
(38x18x13mm)

122-10 Diamond Knife Cleaning Toolspkg/20

122-20 Diamond Knife Cleaning Blovkpkg/5

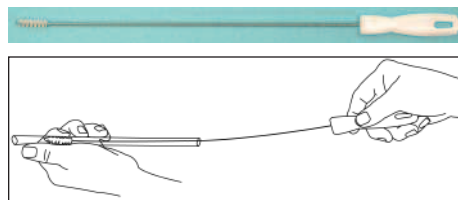
PELCO® Pro Cleaning Brushes

over 30 different styles available

A complete selection of specially designed, high quality cleaning brushes for all cleaning tasks in your lab. With this wide choice of cleaning brushes, made in the U.S.A., you will find the perfect brush to clean glassware, baths, ducts, pipes, hoses, ultrasonic cleaners, instruments, etc. Brushes are available for both delicate and heavy cleaning tasks with sturdy polypropylene bristles, non-scratching cleaning with soft closed cell polypropylene and large area cleaning with non-woven polypropylene open fiber pads.

Most brushes are constructed with galvanized steel wire and polypropylene handles. Brushes with the narrower galvanized wire are designed to be bent to reach difficult places or to comply with the form of the container which needs to be cleaned.

■ Thin Tube Cleaning Brush



Use to clean thin tubing

Handle and bristles are polypropylene

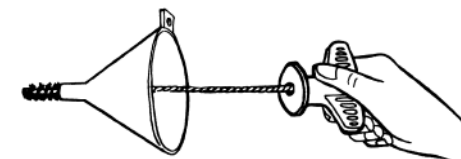
Length from handle to tip of brush: 35cm
(13.8")

Brush length x diameter: 32mm x 8mm
dia. (1.25" x ⅝" dia.)

Twisted pair wire, individual wire diameter/overall diameter: 1.52mm/2.9mm
(.060"/.115")

11900 Thin Tube Cleaning Brushpkg/4

■ Strong Spout and Tube Brush



Heavy twisted wire for bend resistance

Handle and bristles are polypropylene

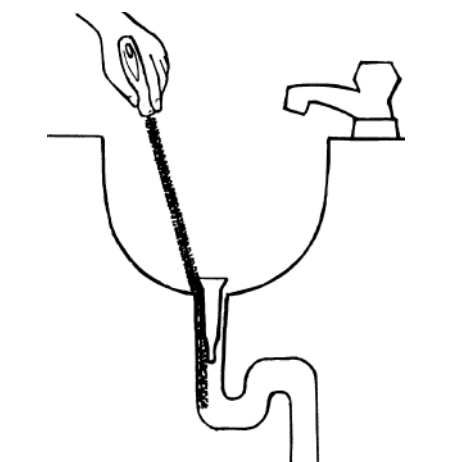
Length from handle to tip of brush: 30cm
(12")

Brush length x diameter: 89mm x 9.5mm
dia. (3-½" x ⅜" dia.) with taper at tip

Twisted pair wire, individual wire diameter/overall diameter: 1.52mm/2.9mm
(.060"/.115")

11902 Strong Spout and Tube Brushpkg/3

■ Pipe and Drain Brush



Thin, flexible brush

Handle and bristles are polypropylene

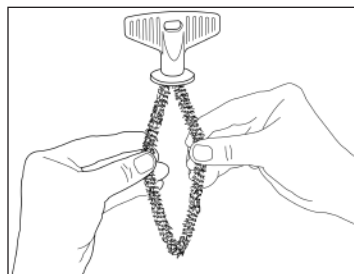
Length from handle to tip of brush:
33.7cm (13-¼")

Brush length x diameter: 34mm x 8mm
dia. (13-¼" x ⅝" dia.) with taper at tip

Twisted pair wire, individual wire diameter/overall diameter: 1.52mm/2.9mm
(.060"/.115")

11904 Pipe and Drain Brush . . .pkg/3

■ Test Tube Brush



Brush may be spread apart to adjust to size

Handle and bristles are polypropylene

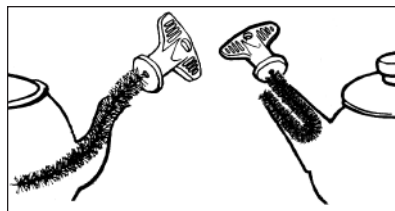
Length from handle to tip of brush: 16.8cm (6-5/8")

Brush length x diameter: 34mm x 11mm dia. each (6-5/8" x 7/16" dia. each)

Twisted pair wire, individual wire diameter/overall diameter: 1.52mm/2.9mm (.060"/.115")

11906 Test Tube Brushpkg/2

■ Funnel and Spout Brush



For cleaning inside tapered tubes and spouts; easily bent to form to shape.

handle and bristles are polypropylene

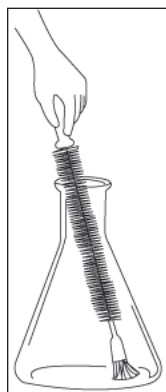
Length from handle to tip of brush: 22cm (8-1/2")

Brush length x diameter: 22cm x 24mm dia. (8-1/2" x 1-5/16" dia.)

Twisted pair wire, individual wire diameter/overall diameter: 2.34mm/4.39mm (.092"/.173")

11910 Funnel and Spout Brush..pkg/3

■ Large Jug Brush



Multi-purpose brush cleans hard to reach areas

Handle and bristles are polypropylene

Length from handle to tip of brush: 39.4cm (15-1/2")

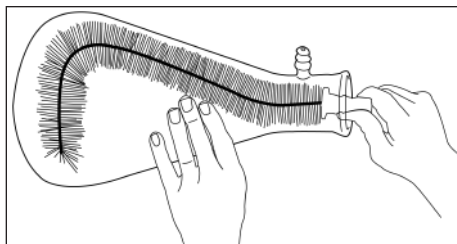
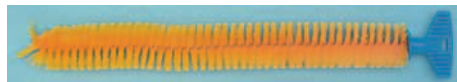
Brush (1) length x diameter: 28.6cm x 48mm dia. (11-1/4" x 1-7/8" dia.)

Brush (2) (tip) length x diameter: 29mm x 22mm dia. (1-1/8" x 7/8" dia.)

Twisted pair wire, individual wire diameter/overall diameter: 3.4mm/8.13mm (.135"/.320")

11912 Large Jug Brusheach

■ Long Bottle and Flask Brush



Can be bent to conform to interior curve of flask

Can be used with hot water

handle and bristles are polypropylene

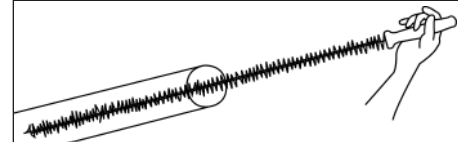
Length from handle to tip of brush: 40.6cm (16")

Brush length x diameter: 40.6cm x 48mm dia. (16" x 1-7/8" dia.)

Twisted pair wire, individual wire diameter/overall diameter: 2.28mm/6.4mm (.090"/.252")

11914 Long Bottle and Flask Brushpkg/2

■ 24" Long Pipe Brush



Good for cleaning long narrow openings and pipes

Handle and bristles are polypropylene

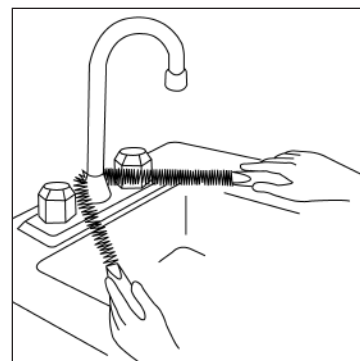
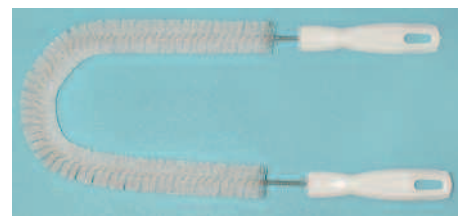
Length from handle to tip of brush: 63.5cm (25")

Brush length x diameter: 62.3cm x 32mm dia. (24-1/2" x 1-1/4" dia.)

Twisted pair wire, individual wire diameter/overall diameter: 2.28mm/6.4mm (.090"/.252")

11916 24" Long Pipe Brusheach

■ Faucet and Handle Brush



Bends to conform to many shapes

Handle and bristles are polypropylene

Length from handle to handle: 42.5cm (16-3/4")

Brush length x diameter: 37.5cm x 24mm dia. (14-3/4" x 1-5/16" dia.)

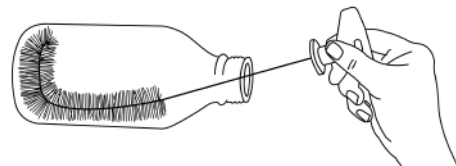
Twisted pair wire, individual wire diameter/overall diameter: 1.40mm/3.3mm (.055"/.130")

11916 Faucet and Handle Brushpkg/2

CLEANING

Cleaning Brushes

■ Bottle Brush, Bent



Brush can be bent to conform to bottle shape

Handle and bristles are polypropylene

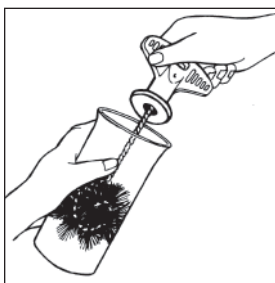
Length from handle to tip of brush: 30cm (12")

Brush length x diameter: 165mm x 38mm dia. (6-½" x 1-½" dia.)

Twisted pair wire, individual wire diameter/overall diameter: 1.52mm/2.9mm (.060"/.115")

11920 Bottle Brush, Bentpkg/3

■ Round Glass and Jar Brush



Cleaning a beaker, heavy twisted wire for bend resistance
Handle and bristles are polypropylene

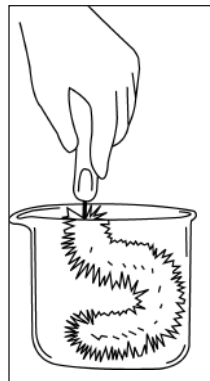
Length from handle to tip of brush: 17.1cm (6.75")

Brush width x diameter of coil: 44mm x 89mm dia. (1-¾" x 3-½" dia.)

Twisted pair wire, individual wire diameter/overall diameter: 2.34mm/4.37mm (.092"/.170")

11922 Round Glass and Jar Brushpkg/2

■ Large Cylinder Brush



scrub the sides and bottom of cylindrical lab ware

handle and bristles are polypropylene

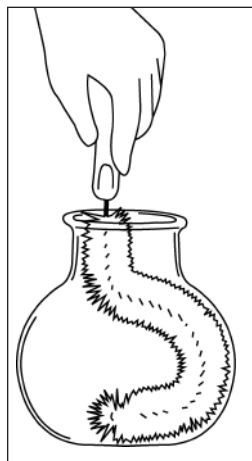
Length from handle to tip of brush: 25.4cm (10")

Brush length x diameter: 24cm x 38mm dia. (9-½" x 1-½" dia.)

Twisted pair wire, individual wire diameter/overall diameter: 2.3mm/4.6mm (.090"/.180")

11923 Large Cylinder Brush . . .pkg/3

■ Flat Bottom Flask Brush



Can be bent to conform to multiple shapes

Handle and bristles are polypropylene

Length from handle to tip of brush: 31.8cm (12-½")

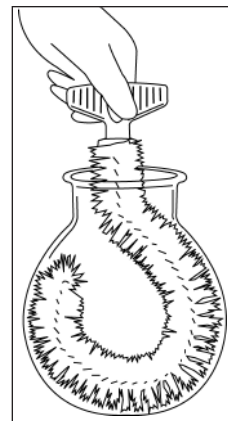
Brush length x diameter: 30.5cm x 44mm dia. (12" x 1-¾"

dia.)

Twisted pair wire, individual wire diameter/overall diameter: 2.3mm/4.6mm (.090"/.180")

11924 Flat Bottom Flask Brush .pkg/2

■ Round Bottom Flask Brush



Handle and bristles are polypropylene

Length from handle to tip of brush: 38.1cm (15")

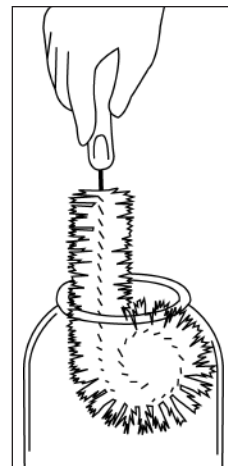
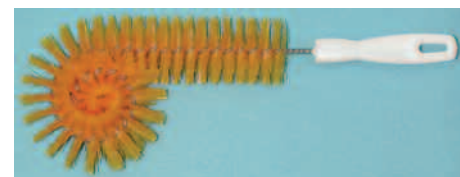
Brush length x diameter: 38.1cm x 44mm dia. (15" x 1-¾" dia.)

Twisted pair wire, individual wire diameter/overall diameter:

2.3mm/4.6mm (.090"/.180")

11926 Round Bottom Flask Brushpkg/2

■ Flask Neck Brush



Stiff construction

Handle and bristles are polypropylene

Length from handle to tip of brush: 21cm (8-¼")

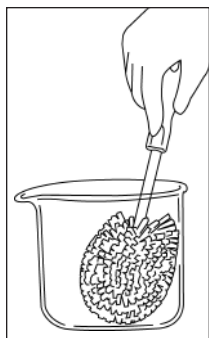
Brush length x diameter: 19cm x 48mm dia. (7-½" x 1-⅞" dia.)

Twisted pair wire, individual wire diameter/overall diameter:

2.3mm/4.6mm (.090"/.180")

11928 Flask Neck Brushpkg/2

■ Soft Washing Brush, Short



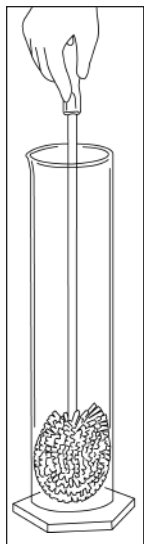
Good for washing stubby lab equipment.
Handle is polypropylene, bristles are closed cell polypropylene foam
Length from handle to tip of brush: 15.3cm (6")
Brush length x diameter: 89mm x 77mm dia. (3-1/2" x 3" dia.)

Twisted pair wire, individual wire diameter/overall diameter: 2.3mm/4.6mm (.090"/.180")

Polypropylene plastic wire cover tube: 9.5mm dia. (3/8" dia.)

11930 Soft Washing Brush, Shortpkg/2

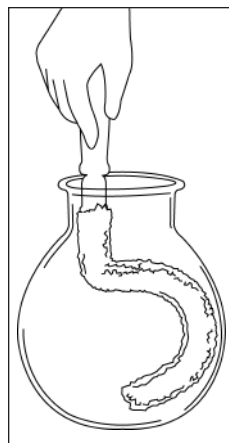
■ Soft Washing Brush, Long



Excellent for washing deep graduated cylinders and flasks. Handle is polypropylene, bristles are closed cell polypropylene foam
Length from handle to tip of brush: 36.8cm (14-1/2")
Brush length x diameter: 89mm x 77mm dia. (3-1/2" x 3" dia.)
Twisted pair wire, individual wire diameter/overall diameter: 2.3mm/4.6mm (.090"/.180")
Polypropylene plastic wire cover tube: 9.5mm dia. (3/8" dia.)

11930 Soft Washing Brush, Longpkg/2

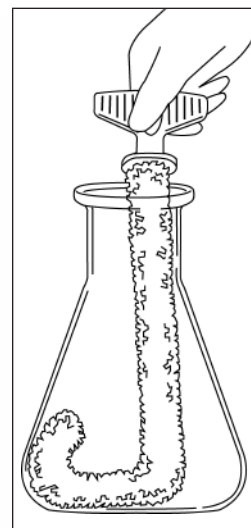
■ Soft Round Flask Brush, Adjustable



Can be adjusted by bending to shape or spreading dual brushes
Handle is polypropylene, bristles are closed cell polypropylene foam
Length from handle to tip of brush: 27.9cm (11")
Brush length x diameter: 27.9cm x 22mm (x2) dia. (11" x 7/8" (x2)" dia.)

11933 Soft Round Flask Brush, Adjustableeach

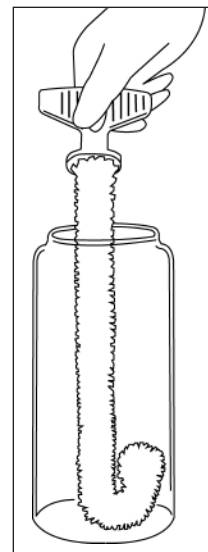
■ Cylinder Soft Brush, 3/4"



Can easily be bent to shape by pushing down into container
Handle is polypropylene, bristles are closed cell polypropylene foam
Length from handle to tip of brush: 37.4cm (14-3/4")
Brush length x diameter: 37.4cm x 19mm

dia. (14-3/4" x 3/4" dia.)
11935 Cylinder Soft Brush, 3/4" . . .each

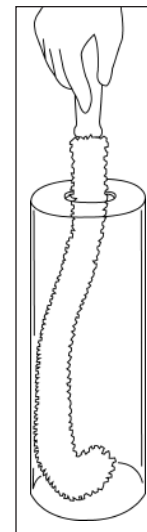
■ Cylinder Soft Brush, 1"



Can easily be bent to shape by pushing down into container
Handle is polypropylene, bristles are closed cell polypropylene foam
Length from handle to tip of brush: 36.8cm (14-1/2")
Brush length x diameter: 36.8cm x 25mm dia. (14-1/2" x 1" dia.)

11936 Cylinder Soft Brush, 1" . .each

■ Soft Flask Brush, 7/8"



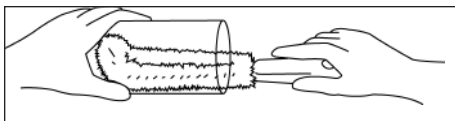
Stiffer and harder to bend than 11935 and 11936
Handle is polypropylene, bristles are closed cell polypropylene foam
Length from handle to tip of brush: 30.5cm (12")
Brush length x diameter: 30.5cm x 22mm dia. (12" x 7/8" dia.)

11938 Soft Flask Brush, 7/8" . . .each

CLEANING

Cleaning Brushes

Jar Washing Brush



Tough plastic bristles will not damage delicate glassware. Stiff, non-bending
Handle and bristles are polypropylene
Length from handle to tip of brush:
146mm (5-¾")
Brush length x diameter: 146mm (x2) x 25mm dia. (5-¾" (x2)" x 1" dia.)
Twisted pair wire, individual wire diameter/overall diameter: 2.3mm/5.1mm (.090"/.2")

11939 Jar Washing Brushpkg/2

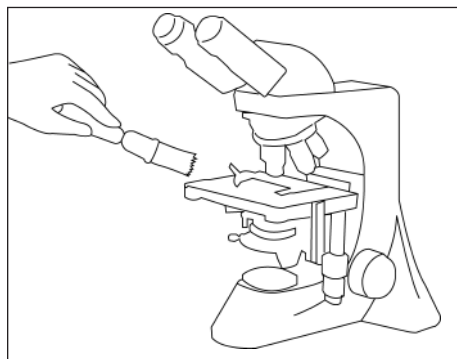
Keyboard Duster



Good for cleaning all sensitive equipment
Handle and bristles are polypropylene
Total length: 17.8cm (7")
Brush length x diameter: 41mm x 19mm dia. (1-⅝" x ¾" dia.)

11939 Keyboard Dusterpkg/2

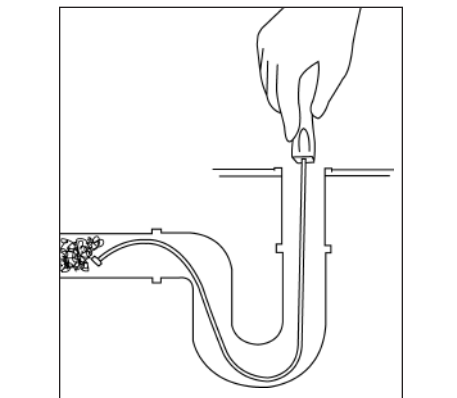
Soft Instrument Duster



For microscopes, printed circuits, laboratory instruments, etc.
Handle and bristles are polypropylene
Total length: 16.5cm (6-1/2")
Brush length x diameter: 41mm x 19mm dia. (1-⅝" x ¾" dia.)

11944 Soft Instrument Duster .pkg/2

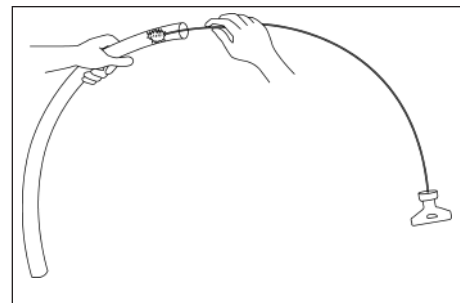
Lab Drain Snake, 31"



Flexible stem easily bends to fit into drain traps
Length from handle to tip of snake:
67.9cm (26-3/4")
Diameter of flexible stem: 4.8mm dia. (⅜" dia.)

11950 Lab Drain Snake, 31" . . .each

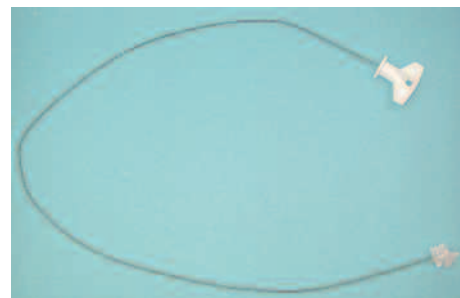
24" Flexible Tube Brush



For cleaning plastic and metal tubes
Handle and bristles are polypropylene
Length from handle to tip of brush: 61cm (24")
Brush length x diameter: 38mm x 25mm dia. (1-½" x 1" dia.)
Twisted pair wire, individual wire diameter/overall diameter: 1.6mm/2.95mm (.063"/.116")

11952 24" Flexible Tube Brush .each

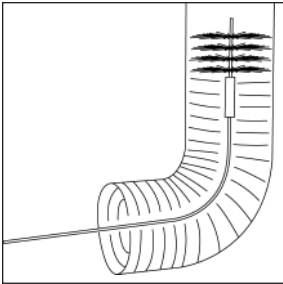
48" Flexible Tube Brush



For cleaning plastic and metal tubes
Handle and bristles are polypropylene
Length from handle to tip of brush: 122cm (48")
Brush length x diameter: 38mm x 25mm dia. (1-½" x 1" dia.)
Twisted pair wire, individual wire diameter/overall diameter: 1.6mm/2.95mm (.063"/.116")

11954 48" Flexible Tube Brush .each

■ 4" dia. Vent Duct Brush, 24" long



Flexible stem for cleaning dryer vent, air ducts
Can be used on straight, 45° and 90° bent ducts

Handle and bristles are polypropylene

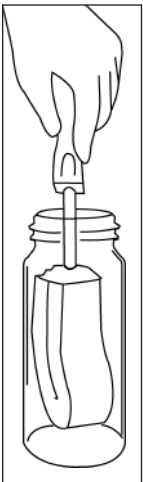
Length from handle to tip of brush: 78.7cm (31")

Brush length x diameter: 64mm x 102mm dia. (2-½" x 4" dia.)

Diameter of flexible stem: 4.8mm dia. (¾" dia.)

11956 4" dia. Vent Duct Brush, 24" longeach

■ Small Lab Bottle Pad Brush

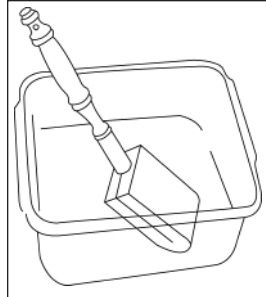


Firm handle curved end on brush
Works well on glass and plastic bottles
brush is a non woven polypropylene material
Length from handle to tip of brush: 18.4cm (7-¼")
Brush length x width: 114mm x 38mm (4-½" x 1-½")
Polypropylene plastic wire cover tube: 13mm dia. (½"

dia.)

11960 Small Lab Bottle Pad Brushpkg/2

■ Large Lab Bath Pad Brush



Long, sturdy plastic handle, good for cleaning ultrasonic cleaners, tubs and washing basins
Not affected by detergents and

chemicals

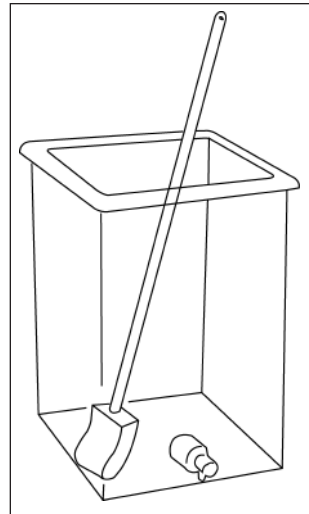
brush is a non woven polypropylene material

Length of handle: 24.8cm (9-¾")

Brush length x width: 114mm x 76mm (4-½" x 3")

11962 Large Lab Bath Pad Brusheach

■ Lab Vat Brush, Long Handle



For cleaning down into large containers
Brush is a non woven polypropylene material

Length of handle: 83.8cm (33")

Brush length x width: 125mm x 76mm (4-¾" x 3")

11964 Lab Vat Brush, Long Handleeach

■ PELCO® Turbo Hand Vacuum Cleaner



Powerful turbo hand vacuum cleaner to capture dry spill of the lab bench, to clean your coating system of carbon and metal flakes and to remove dust from your lab environment. Particularly useful in any microscopy lab to reduce dust in the work area. Compact unit with powerful 700W motor (110VAC), real HEPA filter and a convenient strap to carry around. Comes with 2' long flexible hose, 2 brushes and 15' power cord. Can be positioned aside the work area to remove dry dust and small particles during sample preparation work.

17829 PELCO® Turbo Hand Vacuum Cleaner, 110Veach