

# LABORATORY SUPPLIES, GENERAL

## Ampoule Breakers; Beakers



### ■ Ampoule Breaker; Soft Silicone

A simple way to break ampoules. Takes 5, 7, and 10ml ampoules. Reduces injury and spillage.

**439-5** Ampoule Breaker, Silicone .....each

### ■ Ampoule Cracker; Disposable



*for safely opening prescored ampoules*

Slip the Ampoule Cracker over the top of the ampoule at the prescored portion, press on collar to snap off the top. Discard the top along with the Ampoule Cracker (**using proper safety precautions for hazardous waste disposal**).

The Ampoule Cracker not only has applications for electron microscopy, but also for blood gas reagents, pharmaceuticals, electrolyte and flame standards, anesthesiology solutions, nursing and manufacturing. Useful anywhere ampoules need to be opened. Patent pending.

**18405** Ampoule Cracker, Disposable, 1-4ml size . .pkg/100

**18407** Ampoule Cracker, Disposable, 11-20ml size .....pkg/100

### ■ Tri-Stir® Disposable Plastic Beakers



Convenient measuring and stirring of EM and other chemicals, pours without dripping, a disposable alternative to your laboratory glassware.

Polypropylene Tri-Stir® Disposable Beakers are graduated, stackable, disposable, sterilizable and have three shallow dripless pouring spouts. The Tri-Stir® Disposable Plastic Beaker is useful for EM/LM specimen preparation.

**50ml beakers: 10 to 50ml in 10ml increments**

**12902** 50ml Tri-Stir® Beakers .....pkg/100

**100ml beakers: 10 to 100ml in 10ml increments**

**12904** 100ml Tri-Stir® Beakers .....pkg/100

**12904-20** 100ml Tri-Stir® Beakers .....pkg/20

**250ml beakers: 30 to 250ml in 20ml increments**

**12906** 250ml Tri-Stir® Beakers .....pkg/100

**12906-20** 250ml Tri-Stir® Beakers .....pkg/20

**400ml beakers: 40 to 400ml in 40ml increments**

**12908** 400ml Tri-Stir® Beakers .....pkg/100

**800ml beakers: 50 to 800ml in 50ml increments**

**12910** 800ml Tri-Stir® Beakers .....pkg/100

**1000ml beakers: 50 to 1000ml in 50ml increments**

**12912** 1000ml Tri-Stir® Beakers .....pkg/100

### ■ Caps for Tri-Stir® Beakers

Write-on, wax-impregnated cardboard caps for protection against spills while handling and carrying.

**12921-2** 50ml Tri-Stir® Beaker Caps .....pkg/100

**12923-2** 100ml Tri-Stir® Beaker Caps .....pkg/100

**12925-2** 250ml Tri-Stir® Beaker Caps .....pkg/100

**12927-2** 400ml Tri-Stir® Beaker Caps .....pkg/100

**12929-2** 800ml Tri-Stir® Beaker Caps .....pkg/100

**12931-2** 1000ml Tri-Stir® Beaker Caps .....pkg/100

### ■ Polypropylene, Pyrex® and Stainless Steel Beaker



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

**17329** Pyrex® Beaker, 250ml .....each

**17309** Pyrex® Beaker, 400ml .....each

**17327** Pyrex® Beaker, 600ml .....each

**17328** Stainless Steel Beaker, 600ml .....each

**17310** Polypropylene Beaker, 400ml .....each



## ■ PTFE Beaker



These beakers are opaque, rigid, nonporous, smooth surfaced and resist all chemicals except molten alkali metals and fluorine. They are an efficient substitute for platinum and can withstand 260°C continuously or 300°C for short periods. They have flat bases suitable for heating on controlled electric hot plates. PTFE Beakers are excellent for use in the PELCO BioWave® Pro Microwave Processor.

- 21201** 1ml PTFE Beaker, 13mm OD, 12mm ID, 18mm H .....each
- 21202** 5ml PTFE Beaker, 20mm OD, 17mm ID, 26mm H .....each
- 21204** 25ml PTFE Beaker, 32mm OD, 28mm ID, 47mm H .....each
- 21206** 100ml PTFE Beaker, 54mm OD, 49mm ID, 68mm H .....each
- 21207** 250ml PTFE Beaker, 66mm OD, 61mm ID, 97mm H .....each

## ■ LABMAT™ in Dispenser



Disposable Labmat™ bench & drawer liner simplifies cleanup chores and safeguards work surfaces from stains and spills. Flexible plastic is non-skid, and prevents soak-through of most solutions. The highly absorbent upper surface traps water,

dyes, corrosive chemicals and radioactive solutions. 20" x 50' (50.8cm x 15.2m). Can be rolled up and discarded after use. Required amount is cut with scissors.

- 81115** Labmat™, 15.2 meter roll .....each

## ■ Spilltray™ and Drying Rack



- Reduce drying time
- Retain accidental spills
- Easy to clean
- Holds 1-¼ liters (2.64 pint) of spilled liquid

Retain spills with this chemical-resistant, maintenance-free, polyethylene containment tray. Use one at each workstation or fume hood to safely handle chemicals and liquids while pipeting, measuring, or mixing. Easy to clean, simply lift off the white grid and empty. Low profile design is perfect for drying glassware and delicate items. Plastic grid cushions and protects against breakage and scratches. Grid cuts drying time in half by permitting air circulation. Entire unit is dishwasher safe.

Dimensions: 16-½" x 13" x ⅝" (42 x 33 x 1.6cm) Weight: 1 lb. (454g)

- 20150** Spilltray™ and Drying Rack .....each

## ■ Lab-Aire® II Drying Rack



Dries labware quickly by providing continuous warm air circulation

Selector knob allows choice of 3 temperature settings: high, medium, and low

Single sided, 38 pegs

- 2080** Lab-Aire® II Drying Rack .....each

## ■ Cube Rack

*interlocking on all sides*



This solidly constructed Cube Rack is a must for any laboratory. It accommodates (4) 50ml tubes, (10) 15ml conical tubes, (12) 12 x 75 or 12 x 100 tubes, or

(16) 1.5 - 2.0ml microcentrifuge tubes. This rack is made of autoclavable polypropylene and slides together on any side, allowing the user to work with different tubes on as many connected racks as desired. Sold in packages of 5 assorted colors: blue, green, pink, yellow and orange

- 12940** Cube Rack, assorted colors .....pkg/5



# LABORATORY SUPPLIES, GENERAL

Vials; Balsam Bottle; Shell Vials; Pipettes; Pipette Bulbs

## ■ Wheaton "Snap-Cap" Specimen Vials

(tight P.E. cap can be removed by the thumb tab with the same hand holding the vial; hygroscopic barrier)



EM tissue handling and processing is conveniently done in the popular, "Snap-Cap" biomedical vial. Polyethylene caps snap over

a special sealing ring forming an effective barrier to moisture. EM infiltration and dehydration procedures are commonly carried out in these vials.

- 12701** Glass Snap-Cap Vials, 4ml, 23mm D x 27mm H .....case/144
- 12702** Glass Snap-Cap Vials, 8ml, 22mm D x 39mm H .....case/144
- 12703** Glass Snap-Cap Vials, 12ml, 22mm D x 51mm H .....case/144
- 12704** Glass Snap-Cap Vials, 16ml, 30mm D x 40mm H .....case/144
- 12706** Glass Snap-Cap Vials, 24ml, 30mm D x 52mm H .....case/144
- 12708** Glass Snap-Cap Vials, 32ml, 30mm D x 63mm H .....case/144
- 12710** Glass Snap-Cap Vials, 40ml, 30mm D x 63mm H .....case/72
- 12712** Glass Snap-Cap Vials, 48ml, 32mm D x 83mm H .....case/72

## ■ Mounting Medium / Balsam Bottle



Ideal for applying mounting media. Provided with a glass applicator block and glass cap. Cap is ground to the shoulder of the bottle to form a seal. Made of "810" soda lime glass. Capacity: 100ml. Diameter: 17mm (.67"). Height: 100mm (3.94"). (supplied without media)

- 21033** Mounting Medium/Balsam Bottle .....each



## ■ Shell Vials

- 36123** Glass Specimen Shell Vials, 21mm OD x 70mm H, 19mm ID .....pkg/10

## ■ Clear Wheaton Sample Vials, with Rubber Lined Screw Cap



Solid top black phenolic caps with 14B white rubber liner attached. The vials are manufactured from Wheaton 33® low extractable borosilicate glass (meets ASTM Type I Class A and USP Type I Standards) to protect against changes in pH and maintain purity of contents. They have uniform sidewall and

bottom thicknesses, are lightweight and have excellent strength and clarity. Storage down to -40°C.

### Typical Elemental Extraction Data of Wheaton 33® Type I Glass (ppm)

element	Si	Al	Na	K	Ca	Mg	Ba
Type 1	<1	<0.003	0.3 TO 0.5	<<0.05	<<0.05	<<0.05	<<0.05

- 410** Sample Vials, 2ml, 12mm Dia x 38mm H ...cs/288
- 411** Sample Vials, 4ml, 15mm Dia x 48mm H ...cs/144
- 412** Sample Vials, 8ml, 17mm Dia x 63mm H ...cs/144
- 413** Sample Vials, 12ml, 19mm Dia x 68mm H ...cs/144
- 12730** Sample Vials, 20ml, 28mm Dia x 60mm H ...cs/72
- 12731** Sample Vials, 25ml, 28mm Dia x 73mm H ...cs/72

## ■ Glass Pasteur Pipettes *short and long*



Straight tip. Constriction near mouth to retain cotton plug. Ends square cut. Note: For Plastic Disposable Pipettes go to "Plastic-ware".

- 426** Pasteur Short Disposable Pipettes, 146mm, Glass, non-sterile .....box/200
- 427** Pasteur Long Disposable Pipettes, 228mm, Glass, non sterile .....box/200

## ■ Natural Rubber Bulb for Pipette



- 439-2** Natural Rubber Bulb, 2ml, 40mm long ...pkg/24

## ■ Silicone Rubber Bulb for Pipettes, long lasting



- 439-4** Silicone Rubber Bulb, 2ml, 40mm long ...pkg/24



## ■ Kimwipes®



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

**808-1 Kimwipes®, Small, 280/box . . . . .case/12**

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

**808-2 Kimwipes®, Small, 280/box . . . . .box/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 Kimwipes® . . . . .each**

## ■ 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/box . . . . .case/12**

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

**809-2 MultiWipes™, Large . . . . .box/140**

## ■ Petri Dish Dispenser Rack



*adjusts to hold a variety of dish sizes*

This adjustable dispenser neatly and safely holds 15 petri dishes up to 10cm (4") in diameter. Made of rugged ABS plastic, it slides apart at the base for easy refilling. The rack is 21cm (8-1/4") high x 9cm (3-1/2") wide and extends from 13cm (5") to 21cm (8-1/4") long.

**14007 Petri Dish Dispenser Rack . . . . .each**

## ■ Disposable Polystyrene Petri Dishes



Sterilized in packages of 20, 100 or case of 500. Round, plain sleeves of 20 two-part sets (base and lid). Outside dimensions: 90mm dia. x 15mm H. Inside dimensions: 88mm dia. x 12mm H (with lid on).

**14001 Disposable Petri Dishes, round . . . . .pkg/20**

## ■ Polypropylene Petri Dishes



Suitable for use in the Microwave Systems. Very sturdy.

Inside dimensions: 50mm dia. x 12mm deep

**36135 Polypropylene Petri Dishes, 50mm ID x 12mm . . . . .pkg/100**

## ■ Square Polystyrene Petri Dishes



Free from optical distortion and sterile. These dishes are ideal for phage typing, susceptibility testing, plate counts and probe assays. Each 13mm grid is marked numerically

in one direction and alphabetically in the other. Four venting ribs on the underside of the lid prevent condensation build-up. Plain sleeves of 10, 10 sleeves (100) per package. Two-part sets (base and lid). Size: 100 x 100 x 15mm high.

**14008 Disposable Petri Dishes, square with grid . . . . .pkg/100**

## ■ Liquid Alarm



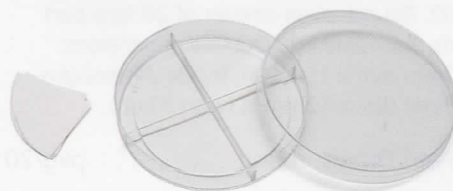
This effective Liquid Alarm is helpful to detect leaks of cooling systems and overflow or leaks of drums, tanks or beakers. It is a perfect reminder when unattended fluid pumps are running. Place the sensor on the floor to detect spills. The moment a solu-

tion touches the sensor, a high-decibel alarm sounds and a red LED light flashes continually until the sensor is removed from the liquid or the unit is turned off. This will alert people and allows taking action before a more serious situation develops. For use with aqueous solutions and liquids that do not attack plastics. Cable length from sensor to alarm unit is 10 feet, size of case is 76x46x19mm (3" x 1-13/16" x 3/4"), weight 71gr (2-1/2 oz). Uses 1 AA battery (included).

**54515 Liquid Alarm, including sensor and AA battery . . . . .each**



### ■ Quadrant Petri Dishes & Filter Paper Quadrants



The plastic petri dishes are divided into quadrants and are furnished with filter paper segments. They are used as containers as

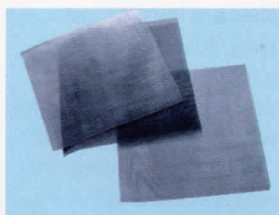
short time storage of grids between different steps of specimen preparation, as a receptacle for ready-to-use glass knives, as block storage and for small EM parts in general. Packaging is 100 dishes (2-part sets, base and lid) with 400 filter paper segments. Outside dimensions: 90mm dia. x 15mm H. Inside dimensions: 88mm dia. x 12mm H (with lid on). (courtesy Robert Bils)

**14011** Quadrant Petri Dishes with filter paper . . .pkg/100

**14013** Filter Paper Segments . . . . .pkg/400

### Screening, Stainless Steel Wire Mesh, Nylon, Polyester, Polypropylene Mesh

#### ■ Stainless Steel Mesh



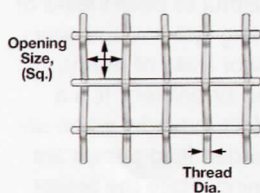
150mm squares. Suitable for supporting grids during specimen preparation. Cut with metal shears to size. (see "Miracle" Universal Scissors)

#### Specifications:

50 Mesh: Bar width: 200µm  
Open space: 340µm

**44814** Stainless Steel, 50 Mesh . . . . .pkg/3

### ■ Precision Mesh Screening Cloth PELCO® Precision Woven Mesh in Nylon, Polyester and Polypropylene



These precision screening cloths are woven with monofilament fibers (single threads) with accurate diameters, resulting in a mesh with precise openings that resist clogging and are easy to clean. Mesh screening is suited for sifting, straining, filtration and immersion appli-

cations. Used in sample preparation, sorting and prototyping in laboratories and shops. Available in handy 6"x6" and 3"x3" pieces.

**Nylon** mesh is more abrasion resistant than polyester. Can be gamma, steam and ETO sterilized. Maximum temperature is 235°F (113°C). Color is opaque to translucent white.

**Polyester** mesh has a better strength in wet conditions than nylon. Maximum temperature is 260°F (127°C). Color is opaque to translucent white.

**Polypropylene** mesh offers good strength and stability and is highly resistant to acids, alkalis and other chemicals. Excellent for

working with materials that bind up most metal screens. Maximum temperature is 194°F (90°C). Color is opaque to translucent white.

Specifications for Nylon, Polyester and Polypropylene Meshes									
Prod. Nos.	Material	Mesh	Openings per sq. inch	Thread Dia. inch	Thread Dia. µm	Opening Size inch	Opening Size µm	Open Area	Micron Rating
41-3105 41-6105	Nylon	50	50 x 50	0.0085	216	0.0118	300	34%	300
41-3110 41-6110	Nylon	100	104 x 104	0.0037	94	0.0059	150	38%	150
41-3115 41-6115	Nylon	150	145 x 145	0.003	76	0.0039	100	32%	100
41-3120 41-6120	Nylon	200	198 x 198	0.0015	38	0.0035	89	49%	80
41-3130 41-6130	Nylon	300	307 x 307	0.0013	33	0.002	51	37%	37
41-3140 41-6140	Nylon	400	376 x 376	0.0016	41	0.0011	28	17%	21
41-3205 41-6205	Polyester	50	45.7 x 45.7	0.0074	188	0.0148	376	46%	375
41-3210 41-6210	Polyester	100	109 x 109	0.0034	86	0.0059	150	41%	150
41-3215 41-6215	Polyester	150	145 x 145	0.003	76	0.0039	100	32%	100
41-3230 41-6230	Polyester	300	320 x 320	0.0016	41	0.0016	41	25%	40
41-3240 41-6240	Polyester	400	276 x 367	0.0017	43	0.0011	28	16%	27
41-3305 41-6305	Polypropylene	50	56 x 56	0.0085	216	0.0098	249	29%	250
41-3310 41-6310	Polypropylene	100	98 x 98	0.0043	109	0.0059	150	34%	150

#### Nylon Mesh:

**41-3105** Nylon, 50 Mesh, 3" x 3" . . . . .each  
**41-6105** Nylon, 50 Mesh, 6" x 6" . . . . .each  
**41-3110** Nylon, 100 Mesh, 3" x 3" . . . . .each  
**41-6110** Nylon, 100 Mesh, 6" x 6" . . . . .each  
**41-3115** Nylon, 150 Mesh, 3" x 3" . . . . .each  
**41-6115** Nylon, 150 Mesh, 6" x 6" . . . . .each  
**41-3120** Nylon, 200 Mesh, 3" x 3" . . . . .each  
**41-6120** Nylon, 200 Mesh, 6" x 6" . . . . .each  
**41-3130** Nylon, 300 Mesh, 3" x 3" . . . . .each  
**41-6130** Nylon, 300 Mesh, 6" x 6" . . . . .each  
**41-3140** Nylon, 400 Mesh, 3" x 3" . . . . .each  
**41-6140** Nylon, 400 Mesh, 6" x 6" . . . . .each

#### Polyester Mesh:

**41-3205** Polyester, 50 Mesh, 3" x 3" . . . . .each  
**41-6205** Polyester, 50 Mesh, 6" x 6" . . . . .each  
**41-3210** Polyester, 100 Mesh, 3" x 3" . . . . .each  
**41-6210** Polyester, 100 Mesh, 6" x 6" . . . . .each  
**41-3215** Polyester, 150 Mesh, 3" x 3" . . . . .each  
**41-6215** Polyester, 150 Mesh, 6" x 6" . . . . .each  
**41-3230** Polyester, 300 Mesh, 3" x 3" . . . . .each  
**41-6230** Polyester, 300 Mesh, 6" x 6" . . . . .each  
**41-3240** Polyester, 400 Mesh, 3" x 3" . . . . .each  
**41-6240** Polyester, 400 Mesh, 6" x 6" . . . . .each

#### Polypropylene Mesh

**41-3305** Polypropylene, 50 Mesh, 3" x 3" . . . . .each  
**41-6305** Polypropylene, 50 Mesh, 6" x 6" . . . . .each  
**41-3310** Polypropylene, 100 Mesh, 3" x 3" . . . . .each  
**41-6310** Polypropylene, 100 Mesh, 6" x 6" . . . . .each



## Glass Bottom Dishes *highest quality - sterile*

Glass Bottom Dishes are used in the fields of Life Science and Environmental Research, Molecular and Cell Biology, Cell Culture and Cell Physiology, Biotechnology, Neurology, Pathology, Pharmacology and more.



**Note:** The following glass bottom dishes have a "non-vented" lid. The lid rests directly on top of the dish, to prevent gases to exchange during cell culture, too rapidly. Bottom and top could be sealed with a tape during temporary removal from the incubator.

Product Numbers:  
14026-20, 14026-120, 14027-20, 14027-200  
and the black wall dishes:  
14035-20, 14035-120, 14036-20, 14036-120

### Applications:

- Live Cell Microscopy
- Multi-Photon Laser Scanning Microscopy (MPLSM)
- High Level Laser Fluorescence
- Fluorescence Lifetime Imaging Microscopy (FLIM)
- Fluorescence Resonance Energy Transfer Microscopy (FRET)
- Fluorescence Redistribution After Photobleaching Microscopy (FRAPM)
- Epifluorescence Microscopy
- Fluorescence Imaging
- Immunofluorescence Microscopy
- Confocal Microscopy
- Confocal Laser Scanning Microscopy (CLSM)
- Phase Contrast Microscopy
- Polarized Light Microscopy
- Differential Interference Contrast
- High Resolution Image Analysis
- Time Lapsed Photography
- Video-Enhanced Microscopy
- Infrared imaging
- Calcium imaging
- Colocalization studies
- Green Fluorescent Protein (GFP)
- Micromanipulation
- Microinjection

### Advantages:

1. Much larger effective range, using an objective lens with a short working distance

2. No birefringence effects because of thin (0.17mm) glass bottom
3. Low rim/side wall of the dish and a larger effective working distance make micromanipulation and microinjection possible.
4. Higher effective N.A. make brighter images (in e.g.: fluorescence)
5. Higher effective N.A. make higher resolutions in image analysis
6. Microscope light passes through the bottom glass in a rectangular way, glass rests on stage
7. Direct heating from the microscope-stage, because the glass is in direct contact (flush) with stage
8. In IVF, no more oocyte-/embryo transfer is needed from one plastic dish to another, unless different media are being used, saving a lot of time
9. Easy "perfusion" in the dish for continuous in and out-flow of solutions, using "perfusion chamber insert"

### Fields of Application:

Fertility & Sterility	ICSI, spermatid identification, assisted hatching, embryo biopsy, genetics, etc.
(Cell-) Physiology	Patch clamping, ion-imaging, etc.
Pathology	Studies e.g. on the morphology of particles and cells, etc.
Neurology	Axon growth, in and efflux studies of electrolytes, etc.
Cell Biology	Cell-cell communication studies, tissue culture, etc.
Molecular Biology	Studies on genetics (DNA), enzymatic activity, etc.
Pharmacology	Cell research, in and outside the cell on all levels.
Plant Physiology	Root hair growth, micro-parasites on roots, etc.

All cells and tissues have preference either for glass or for plastic (with or without some sort of a surface treatment).

Note: Cells may even have a preference for a particular type of glass or plastic.

*continued on next page*



# LABORATORY SUPPLIES, GENERAL

## Glass Bottom Dishes

Our Glass Bottom Dishes are non-cytotoxic and non-pyrogenic. However, there is always a risk of positioning embryos / life cells on or even close to the edge, where the adhesive ring is in direct contact with the media inside the dish. Therefore, it is our advice to use a position for cells, close to the center of the bottom glass (e.g. as in Figure 1).

**Note:** Our Glass Bottomed Dishes have passed many tests, including cytotoxicity tests. They are "non-cytotoxic" and "non-pyrogenic".

They have passed tests with "hatched" blastocyst (mouse) embryos, showing that they are safe, when embryo's cells are positioned in the center of the glass bottom.

**Warning:** Embryos, specifically "hatched" blastocyst (mouse) embryos are extremely sensitive. Therefore, we advise all users of our Glass Bottom Dishes to be aware of the fact that they consist of:

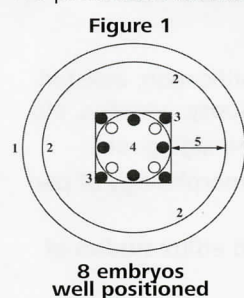
1. A polystyrene ring and lid (non-cytotoxic);
2. Adhesive! (Considered cytotoxic if in close contact for more than 30 minutes);
3. Cover glass bottom (non-cytotoxic).

Although manufacturers of "adhesives" have shown certificates confirming "non-cytotoxicity" and our Glass Bottom Dishes passed biological tests for "non-cytotoxicity" — tested in a "Laboratory for Medical Device Evaluation" — it is our **advice** to position life cells in the center of the glass.

Position all embryos/eggs in the center of the glass bottom, as indicated in Figure 1, within a small circle or in a small square. Do not use paraffin-oil to cover the droplets!

Embryos/eggs (●/○ :3) should be positioned on the glass bottom as indicated in Figure 1.

No producer/manufacture (of e.g. Adhesives or polystyrene)



guarantees the life of (hatched) embryos/cells when positioned directly on, or close to the adhesive seal (2).

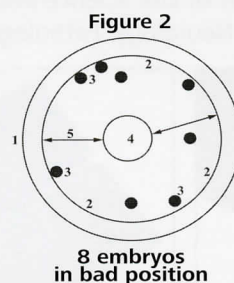
Since the glass proved to be non-cytotoxic for "hatched blastocyst" mouse embryos, over a period of six (6) days, it is our advice to use the positioning, for the maximum of eight embryos, as in Figure 1.

### Explanation of Figure 1:

1. Outer diameter of the dish: Ø50mm.
2. Outer diameter of the glass surface, inside the dish: Ø39mm.
3. Black bullets (8) and smallest circles (4) of the same size: embryo(s)/eggs.
4. Center of the glass bottom, with embryos:
  - a.: Within small circle Ø 15mm (4 black bullets and 4 small circles).
  - b.: Within square of 15mm x 15mm (black bullets) the center (4) is also a good location for the sperm cells
5. Distance from adhesive (2), on the outer edge of the

inner glass surface, to the embryo/egg:

←→ = 10mm minimum.



### Explanation of Figure 2:

In Figure 2, we show an example of several positions of embryos (●/○ :3) or eggs that are being used for examination, of which it is our advice, never to use these positions because these cells are or may be sensitive to all existing "Medical Class VI" adhesives.

**Note:** It is our advice, NOT to position an embryo or an egg, inside the dish as show in Figure 2, close to ring 2.

The clear area, between 1 and 2, is the polystyrene bottom ring, to which the glass is bonded, using a "non-cytotoxic" adhesive.

1. Outer diameter of the dish: Ø50mm.
2. Outer diameter of the glass surface inside the dish: Ø 39mm.
3. Black bullets (8): Embryo(s)/eggs.
4. Center of the glass bottom, where the embryos should be.
5. Distance from adhesive (2), on the outer edge of the inner glass surface, to the embryos/eggs.

←→ = 10mm minimum.

### PELCO® Glass Bottom Dishes in individual Sterile Blister Packs or Sterile Bulk Sleeves of 20

**Dish Size: 35mm Outside Diameter x 10mm High, Glass Area: 12mm dia**

- 14020-20** 35 x 10mm PELCO® Glass Bottom Dishes (Glass 12mm) Blister Packs . . . . .pkg/20
- 14020-120** 35 x 10mm PELCO® Glass Bottom Dishes (Glass 12mm) Blister Packs . . . . .pkg/120
- 14021-20** 35 x 10mm PELCO® Glass Bottom Dishes (Glass 12mm) Sleeve/20 . . . . .each
- 140121-200** 35 x 10mm PELCO® Glass Bottom Dishes (Glass 12mm) Sleeve/20 . . . . .case/25 Sleeves

**Dish Size: 35mm Outside Diameter x 10mm High, Glass Area: 22mm dia**

- 14022-20** 35 x 10mm PELCO® Glass Bottom Dishes (Glass 22mm) Blister Packs . . . . .pkg/20
- 14022-120** 35 x 10mm PELCO® Glass Bottom Dishes (Glass 22mm) Blister Packs . . . . .pkg/120
- 14023-20** 35 x 10mm PELCO® Glass Bottom Dishes (Glass 22mm) Sleeve/20 . . . . .each
- 14023-200** 35 x 10mm PELCO® Glass Bottom Dishes (Glass 22mm) Sleeve/20 . . . . .case/25 Sleeves

**Dish Size: 50mm Outside Diameter x 7mm High, Glass Area: 30mm dia**

- 14024-20** 50 x 7mm PELCO® Glass Bottom Dishes (Glass 30mm) Blister Packs . . . . .pkg/20

*continued on next page*



## Glass Bottom Dishes *Continued*

- 14024-120** 50 x 7mm PELCO® Glass Bottom Dishes  
 (Glass 30mm) Blister Packs . . . . .pkg/120
- 14025-20** 50 x 7mm PELCO® Glass Bottom Dishes  
 (Glass 30mm) Sleeve/20 . . . . .each
- 14025-200** 50 x 7mm PELCO® Glass Bottom Dishes  
 (Glass 30mm) Sleeve/20 . . . . .case/25 Sleeves

**Dish Size: 50mm Outside Diameter x 7mm High, Glass Area: 40mm dia**

- 14026-20** 50 x 7mm PELCO® Glass Bottom Dishes  
 (Glass 40mm) Blister Packs . . . . .pkg/20
- 14026-120** 50 x 7mm PELCO® Glass Bottom Dishes  
 (Glass 40mm) Blister Packs . . . . .pkg/120
- 14027-20** 50 x 7mm PELCO® Glass Bottom Dishes  
 (Glass 40mm) Sleeve/20 . . . . .each
- 14027-200** 50 x 7mm PELCO® Glass Bottom Dishes  
 (Glass 40mm) Sleeve/20 . . . . .case/25 Sleeves

## ■ Black Wall Glass Bottom Dishes

**By WillCo Wells**

*highest quality, sterile*



35mm OD x 10mm H, 22mm Glass Area (image 70% actual size)



50mm OD x 7mm H, 40mm Glass Area (image 70% actual size)

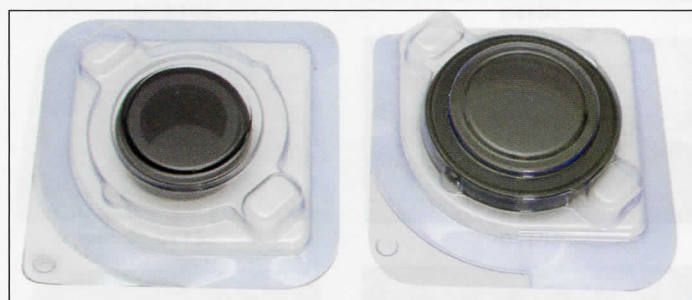
Glass bottom dishes are used in the fields of Life Science and Environmental Research, Molecular and Cell Biology, Cell Culture and Cell Physiology, Biotechnology, Pathology, Pharmacology and more.

### Applications

- Black Wall Dishes for low background fluorescent applications
- Confocal Microscopy
- Inverted Microscopy
- High Resolution Image Analysis
- Micromanipulation
- Differential Interference Contrast (HMC)
- Infrared Imaging

### Additional Advantages are:

1. Much larger effective range, using an objective lens with a short working distance
2. No birefringence effects because of thin (0.17mm) glass bottom
3. Larger effective Working Distances make micromanipulation possible.
4. Higher effective N.A. make brighter images in fluorescence
5. Higher effective N.A. make higher resolutions in Image Analysis
6. Microscope light passes through bottom glass in a rectangular way, *glass rests on stage*
7. Direct heating from the microscope-stage, because the *glass is in direct contact with stage*
8. In IVF, no more oocyte-/embryo transfer is needed from one plastic dish to another, unless different media are being used, saving a lot of time
9. Easy "perfusion" in the dish for continuous in and outflow of solutions, using "perfusion chamber insert"



35mm and 40mm OD shown in blister packs

BLACK Wall Glass Bottom Dishes				
Prod. No.	OD x H	Glass Area	pkg. Type	Unit
<b>Dish Size: 35mm OD x 10mm H, Glass Area: ø12mm</b>				
<b>14028-20</b>	35 x 10mm	12mm	Blister Pack	pkg/20
<b>14028-120</b>	35 x 10mm	12mm	Blister Pack	case/120
<b>14029-20</b>	35 x 10mm	12mm	Sleeve/20	each
<b>14029-200</b>	35 x 10mm	12mm	Sleeve/20	case/10 SI
<b>Dish Size: 35mm OD x 10mm H, Glass Area: ø22mm</b>				
<b>14030-20</b>	35 x 10mm	22mm	Blister Pack	pkg/20
<b>14030-120</b>	35 x 10mm	22mm	Blister Pack	case/120
<b>14031-20</b>	35 x 10mm	22mm	Sleeve/20	each
<b>14031-200</b>	35 x 10mm	22mm	Sleeve/20	case/10 SI
<b>Dish Size: 50mm OD x 7mm H, Glass Area: ø30mm</b>				
<b>14032-20</b>	50 x 7mm	30mm	Blister Pack	pkg/20
<b>14032-120</b>	50 x 7mm	30mm	Blister Pack	case/120
<b>14033-20</b>	50 x 7mm	30mm	Sleeve/20	each
<b>14034-200</b>	50 x 7mm	30mm	Sleeve/20	case/10 SI
<b>Dish Size: 50mm OD x 7mm H, Glass Area: ø40mm</b>				
<b>14035-20</b>	50 x 7mm	40mm	Blister Pack	pkg/20
<b>14035-120</b>	50 x 7mm	40mm	Blister Pack	case/120
<b>14036-20</b>	50 x 7mm	40mm	Sleeve/20	each
<b>14036-200</b>	50 x 7mm	40mm	Sleeve/20	case/10 SI

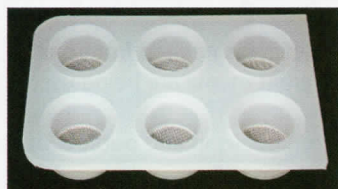


### ■ PELCO Prep-Eze™ Wellplate Inserts

The rectangular polypropylene Wellplate inserts have 5, 12, or 24 wells and will fit into Tissue Culture Plates of the standard 6/12/24 design. A 420µm opening, polypropylene mesh is at the bottom of each of the wells.

	No. of Wells	Well Dia.	Well Growth Area	Total Well Volume	Working Volume
<b>36168-6</b>	6	35mm	9.5cm <sup>2</sup>	15ml	2-3ml
<b>36170-12</b>	12	22.6mm	3.8cm <sup>2</sup>	7ml	1ml
<b>36172-24</b>	24	16mm	1.9cm <sup>2</sup>	3.4ml	0.5ml

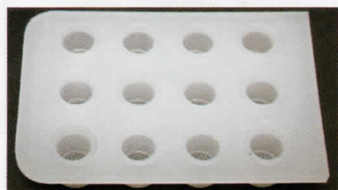
### ■ CorningCostar TC Plates



**36168**



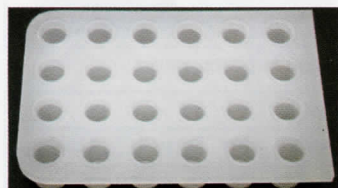
**36168-6**



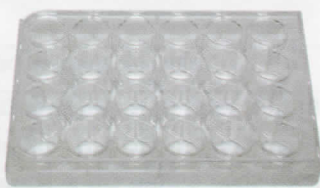
**36170**



**36170-12**



**36172**



**36172-24**

- 36168** PELCO Prep-Eze™ 6-wellplate Insert . . . . .each  
**36170** PELCO Prep-Eze™ 12-wellplate Insert . . . . .each  
**36172** PELCO Prep-Eze™ 24-wellplate, Insert . . . . .each  
**36168-6** Tissue Culture Plate, 6 wells . . . . .case/50  
**36170-12** Tissue Culture Plate, 12 wells . . . . .case/50  
**36172-24** Tissue Culture Plate, 24 wells . . . . .case/50

### ■ Individual Wells



Great for processing individual specimens or keeping specimens separate from others. Same wells as used in the Wellplate Inserts above but on an individual basis. Made entirely from polypropylene.

- 36169** Individual Well, 24.1mm dia x 22.3mm D, 420µm opening screen, all polypropylene . . .each  
**36171** Individual Well, 14.2mm dia x 22.3mm D, 420µm opening screen, all polypropylene . . .each  
**36173** Individual Well, 11.2mm dia x 22.3mm D, 420µm opening screen, all polypropylene . . .each

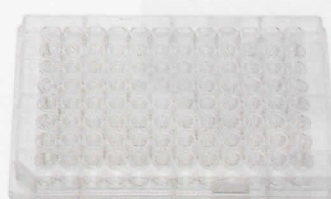
### ■ Replacement Mesh

- 36168-16** Replacement Mesh, 840 µm 6-Well Insert (or 24.1mm dia.) . . . . .pkg/30  
**36168-15** Replacement Mesh, 590 µm 6-Well Insert (or 24.1mm dia.) . . . . .pkg/36  
**36168-8** Replacement Mesh, 420 µm 6-Well Insert (or 24.1mm dia.) . . . . .pkg/30  
**36170-14** Replacement Mesh, 420 µm 12-Well Insert (or 14.2mm dia.) . . . . .pkg/36  
**36170-24** Replacement Mesh, 420 µm 24-Well Insert (or 11.2mm dia.) . . . . .pkg/48

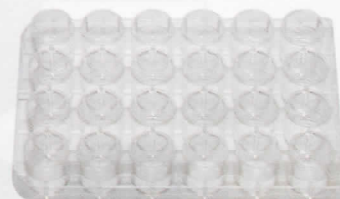
### Tissue Culture Products for Adherent Cells

#### ■ Tissue Culture Plates and Cell + TC Plates

- Lid with condensation rings
- Wells with raised rims
- Lid can only be placed on plate in one direction
- Stackable
- 50 Plates per case



**96 Wells**



**24 Wells**



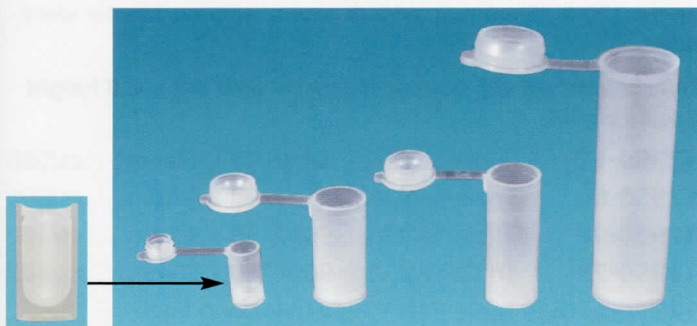
**6 Wells**

Prod. No.	Description	Growth Surface cm <sup>2</sup>	No. of Wells	Max Vol. per Well	Base Shape
<b>36175</b>	96 FB Well TC Plate, ADH	0.35	96	0.38ml	└┐
<b>36175-1</b>	96 FB Well TC Plate, Cell +	0.35	96	0.38ml	└┐
<b>36176</b>	24 FB Well TC Plate, ADH	2	24	3.6ml	└┐
<b>36176-1</b>	24 FB Well TC Plate, Cell +	2	24	3.6ml	└┐
<b>36177</b>	96 RB Well TC Plate, ADH	0.35	96	0.38ml	U
<b>36178</b>	96 VB Well TC Plate, ADH	0.35	96	0.38ml	V
<b>36179</b>	6 VB Well TC Plate, ADH	9.5	6	17.2ml	└┐
<b>36179-1</b>	6 VB Well TC Plate, Cell +	9.5	6	17.2ml	└┐



## ■ Small Polyethylene Vials

*excellent seal with captive closure, good for storing electron microscopy grids, specimens, etc.*



One piece molded vials to store non-volatile liquids or solids. Moisture-proof.

The smallest vial (Prod. No. 21441, see cross section) holds one EM grid and has a rounded bottom to prevent grid from laying flat.

**21441** PE Vial and Cap, 13mm L x 7mm O.D., 0.3ml .....pkg/100

**21445** PE Vial and Cap, 25mm L x 11mm O.D., 1.6ml .....pkg/100

**21449** PE Vial and Cap, 25mm L x 11mm O.D., 2ml .....pkg/100

**21457** PE Vial and Cap, 25mm L x 11mm O.D., 8.4ml .....pkg/100

## ■ PELCO® Microwave Microcentrifuge Tubes PTFE Holder



Made from PTFE, designed to hold 18 conventional polyethylene microcentrifuge tubes. Firmly holds tubes in water bath during curing.

**36134** PELCO® Microcentrifuge Tube Holder .....each

## ■ Microcentrifuge Tubes



Micro sample tubes, made from polypropylene. Microwave transparent; 1.5mm length; Graduated 0.5, 1.0, 1.5mm.

**20836** Microcentrifuge Tubes .....pkg/100

## ■ 1.5ml Microcentrifuge Tubes



Made of high clarity polypropylene that withstands forces up to 30,000xG. Easy open caps with needle insertion spot and textured marking or labeling area. Graduated 0.1 and 0.25ml on the other side. These are high quality tubes. Available in natural or an assortment of colors: Red, yellow, blue, green and orange. They are packaged in bags of 100 for each of five colors, totaling 500. Microwave transparent.

**20838** Natural Microcentrifuge Tubes .....pkg/500

**20840** Assorted Colors, Microcentrifuge Tubes .....pkg/500



## ■ Polypropylene Cups – Static Free – Graduated

*prepares the water for ultramicrotomy*

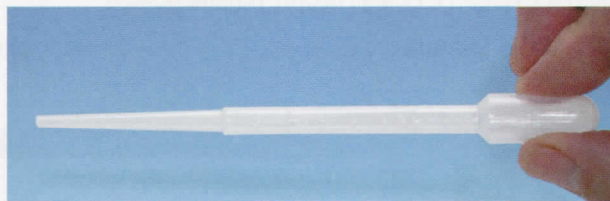
1 fl. oz. volume cups (30ml) which are ideal for preparing water for glass or diamond knife troughs. Causes distilled water to be static-free. Serial sections will not move around the boat. These

plastic cups are great for working with ribbons of sections, and manipulating electron microscopy grids. Graduated by side markings in cc, ml, oz. and Drams. (courtesy: K. Chien)

**12901** Static-Free Plastic Cups, 30ml .....pkg/100

## ■ Disposable Polyethylene Pasteur-Pette

*with built in bulb*



Simple one-piece design using low density polyethylene. The Pasteur-Pette avoids broken glass tips and loose or lost bulbs. Aspiration volume: 2ml.

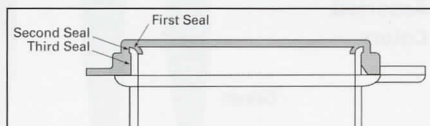
**2264** Pasteur-Pette .....box/500



## ■ Triple-Seal Snap-Top Specimen Transport Containers



Introducing the worlds first leakproof, airtight, snap-top specimen containers for multiple laboratory applications. The built-in triple-seal design on the lid provides a leakproof, airtight construction ideal for pathology laboratories, transporting wet samples and storing (wet) samples.



The permanent hinge and the snap-top design allows for one-hand opening and closing. Molded of 100% high density, translucent polypropylene. Available in a variety of sizes from 14 to 250ml. Additional locking latch for secure transport is available on the 120 & 250ml vials. All vials have a write-on area for identification.

**Dimensions are vial outside diameter (not lid) x vial height (including lid)**

<b>12950-11</b>	Triple-Seal Vial, 14ml, 17 x 78mm	.cs/500
<b>12950-60</b>	Triple-Seal Vial, 47ml, 23 x 84mm	.cs/600
<b>12950-90</b>	Triple-Seal Vial, 90ml, 33 x 93mm	.cs/400
<b>12950-75</b>	Triple-Seal Vial, 90ml, 50 x 50mm	.cs/400
<b>12950-120LP</b>	Triple-Seal Vial with locking latch, 120ml, 43 x 90mm	.cs/250
<b>12950-240</b>	Triple-Seal Vial, 250ml, 75 x 75mm	.cs/150
<b>12950-240LP</b>	Triple-Seal Vial with locking latch, 250ml, 75 x 75mm	.cs/140

## ■ Spoons and Spatulas



**Micro Spoon**, mirror stainless steel, **spoon** and **flat spatula**. Spoon 29mm L x 14.3mm W (1-1/8" L x 9/16" W). Flat 48mm L x 14.3mm W (1-7/8" L x 9/16" W). Overall length 229mm (9").

**13500** Micro Spoon . . . . .pkg/3



**Micro Spoon** stainless steel, **narrow spoon**. Spoon 25.4 mm L x 6.4mm W (1" L x 1/4" W). Plastic handle, overall length 165mm (6-1/2").

**13501** Micro Spoon . . . . .pkg/3



**Micro Spatula**, stainless steel, **narrow spoon** and **flat spatula**. Spoon 12.7mm L x 3.2mm W (1/2" L x 1/8" W). Flat 31.8mm L x 4mm W (2-1/4" L x 5/32" W), Overall length 162mm (6-3/8").

**13504** Micro Spatula . . . . .pkg/3



**Micro Spatula**, stainless steel **narrow spoon** and **sharpened angled ends**. "V" tip is 12.7mm x 2mm (1/2" x 5/64"). Sharpened angled end 38mm L (1-1/2" L). Overall length 160mm (6-5/16").

**13505** Micro Spatula . . . . .pkg/3



**Micro Spatula**, **radius** and **tapered flat ends**, stainless steel mirror finish. Radius end 52mm L x 8.5mm W (2-1/16" L x 5/16" W). Tapered end 52mm L x 7.5mm W (2-1/16" L x 5/16" W). Overall length 195mm (7-1/4").

**13507** Micro Spatula . . . . .pkg/3

*continued on next page*



■ **Spoons and Spatulas** *continued*



**Micro Spatula, square & radius flat ends**, stainless steel mirror finish. Radius end 51mm L x 8mm W (2" L x  $\frac{5}{16}$ " W). Flat end 52mm L x 8mm W (2- $\frac{1}{16}$ " L x  $\frac{5}{16}$ " W). Overall length 178mm (7").

**13508** Micro Spatula . . . . .pkg/3



**Micro Spatula, rounded and rounded tapered ends**. Rounded end 45mm L x 7mm W (1- $\frac{5}{16}$ " L x  $\frac{1}{4}$ " W). Rounded tapered end 49mm L x 7mm W (1- $\frac{15}{16}$ " L x  $\frac{1}{4}$ " W). Stainless steel, 200mm L (7- $\frac{7}{8}$ ").

**13510** Micro Spatula . . . . .pkg/3



**Micro Spoon**, gray PTFE coated stainless steel, **spoon** and flat **spatula**. Spoon 29mm L x 14.3mm (1- $\frac{1}{8}$ " L x  $\frac{9}{16}$ " W). Flat 48 L x 14.3mm W (1- $\frac{7}{8}$ " L x  $\frac{9}{16}$ " W). Overall length 229mm (9").

**13521** Micro Spoon/Spatula, PTFE coated . . . . .each



**Micro Spatula**, brown PTFE coated **tapered** and **radius flat ends**. Radius end 51mm L x 8mm W (2" x  $\frac{5}{16}$ "). Tapered end 51 L x 8mm W (2" L x  $\frac{5}{16}$ " W). Overall length 190mm (7- $\frac{1}{2}$ ").

**13522** Micro Spatula, PTFE coated . . . . .each



**Micro Spatula**, gray PTFE coated **flat rounded ends**. 41mm L x 7mm W (1.61" L x  $\frac{1}{4}$ " W). Overall length 195mm (7.68").

**13523** Micro Spatula, PTFE coated . . . . .each

■ **Plastic Spot Dish, Polystyrene**

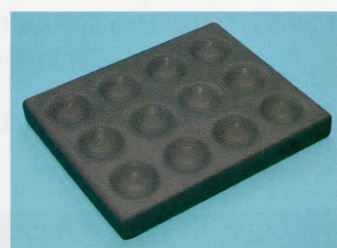


polystyrene, size 112 x 92mm with 12 wells of 22mm dia. and 6mm deep. Sold in package of 6.

**14513** Spot Plate, white, polystyrene . . . . .pkg/6

These economical spot plates are suitable for most applications where glass or porcelain plates are used. However, they are not recommended for strong solvents such as acetone or xylene. Made from white

■ **Porcelain Spot Dishes**



EM staining, replica washing, color reactions can be done in this spot dish. White or black with 12 wells, 6.1mm deep. Plate size: 117 x 90mm.

**14511** Porcelain Spot Dish, white . . . . .each

**14509** Porcelain Spot Dish, black . . . . .each



# LABORATORY SUPPLIES, GENERAL

## Disposable Syringes; Thermometers

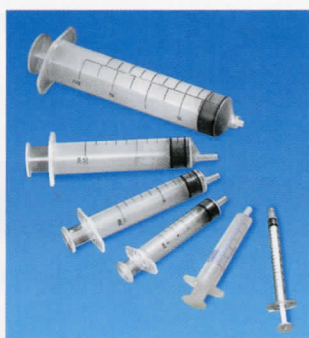
### ■ Disposable Polyethylene Storage Syringes



Store embedding media in Polyethylene Syringes in the deep freeze ready for quick use; dispenses easily and cleanly into capsules. Supplied with a cap for the tip. Tip lengths are 28.6mm (1-1/8"); Tip inside diameters at opening are 1.6mm (1/16"). Ungraduated.

- 115-30** Disposable Plastic Syringe, 15ml .....pkg/20  
**115-40** Disposable Plastic Syringe, 30ml .....pkg/20  
**115-60** Disposable Plastic Syringe, 60ml .....pkg/1000

### ■ Disposable Syringes



- 115-50** Disposable Syringes, 1ml .....pkg/25  
**115-51** Disposable Syringes, all plastic plunger, 2ml .....pkg/25  
**115-52** Disposable Syringes, 5ml .....pkg/25  
**115-53** Disposable Syringes, 10ml .....pkg/25  
**115-54** Disposable Syringes, 20ml .....pkg/25  
**115-55** Disposable Syringes, 60ml .....pkg/10  
**115-56** Disposable Syringe Needles, 19 Gauge, 38mm L (1-1/2") .....pkg/10  
**115-57** Disposable Syringe Needles, 23 Gauge, 32mm L (1-1/4") .....pkg/10

### ■ Laboratory Tongs

*PTFE coated for quick release*



Laboratory type tongs are coated with brown PTFE containing FEP which complies with FDA regulations governing direct food contact applications.

76mm (3") coated tips. Overall length 23cm (9").

- 54471** Stainless Steel Tongs, PTFE coated .....each

### ■ Pocket Digital Thermometer 310



Easily switch between Fahrenheit and Celsius. The LCD can be flipped to give the best angle for viewing. The LCD is large and easy to read. Data hold is incorporated for hard to reach areas. Auto power off saves battery life.

Range: -58° to 300°F  
or -50° to 150°C.

Resolution: 0.1°F/C

Accuracy: ±2°F/±1°C

Sampling Time: 1.5 seconds



- 26802** Digital Thermometer, 310 .....each

### ■ Lollipop® Traceable® Thermometer



Waterproof, shock-proof, stainless steel sensor probe, min/max memory recall, F/C selectable, low battery indicator. -50 to 300°C, -58 to 572° F. Accuracy ±1° from -19.9 to 199.9°C. Stem length is 10.75". Comes with stem cover.

- 26810** Lollipop® Traceable® Thermometer .....each

### ■ Metal Probe Thermometer



Centigrade and fahrenheit, stainless steel

- 6" (15cm) stem.
- 0-140°F or -20 to 60°C.

- 26803** Metal Probe Thermometer .....each



### ■ Traceable® Waterproof Food Piercing Probe/Thermometer



- Stainless-steel piercing tip
- Drop-proof from 5 ft. (1.5m)
- Can be used for soil, food, brewing, labs, and many other uses

#### Specifications:

- Range: -58 to 536°F and -50 to 280°C
- Resolution: 0.1° from -20 to 200°; 1° outside this range
- Accuracy: ±1°C
- Probe dimensions: 8" long x 0.19" dia. (203mm x 4.8mm)
- Unit dimensions: 9-1/2" L x 3-1/4" W x 1" D (241 x 83 x 25.4mm)
- Weight: 1.2 oz. (34g)

New piercing thermometer measures the internal temperature of stored, frozen, or prepared food. Stainless-steel probe is ideal for use in soil, brewing, food processing, refrigeration, and pharmaceutical applications. Waterproof construction allows it to be used in labs, plants, wash-down areas, and the field. Manufactured to be drop-proof from 5 ft. (1.5m). Eliminates the dangers inherent in breakable glass and toxic mercury thermometers.

Reading is updated every second.

#### Traceable to NIST for accuracy

To assure accuracy an individually serial-numbered Traceable® Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Large, bright, highly readable LCD display is 1/4" (6.4mm) high. Supplied with silver-oxide battery and Traceable® Certificate.

**26811** Traceable®, waterproof Food Piercing Probe Thermometer with certificate .....each

### ■ Traceable® Total-Range Thermometer



- Designed for industrial handling
- Fast-response microprocessor updates the display twice a second
- Water-resistant case with an O-ring Gasket

#### Specifications:

- Range: -328 to 2498°F or -200 to 1370°C
- Resolution: 0.1° and 1°
- Accuracy: ±1°C between -50°C to 740°C, otherwise ±2°C
- Dimensions: 3-1/4" x 7" x 1-1/2" (82.6 x 178 x 38.1mm)
- Weight: 8 oz. (227g)

Switch from °F to °C at the touch of a button. Jumbo-size, 5/8" (16mm) high digits are

readable from 10 ft. (3m) away. Unit features HOLD button that freezes display to capture current reading. Batteries power unit for 1 year of routine use.

#### Seals out moisture

Traceable® Total-Range Thermometer is one of the most technically advanced, fastest-reading, yet easy-to-use thermometers ever designed. A microprocessor updates the display twice a second. Rugged unit is constructed of shock-resistant ABS plastic. Water-resistant case is sealed with an O-ring gasket to stop dirt, dust, fumes, and water – perfect for use in a lab or a plant's worst environment.

#### Use with all k-type probes

Meter only accuracy: ±1°C between -50°C to 740°C, otherwise ±2°C. Uses all k-type thermocouple probes.

#### Memories, alarms, min/max and timer

At the touch of a button, recall minimum and maximum temperature readings captured during any time. Alarm function may be set in 1° increments. Alarm sounds when the temperature rises above or falls below high/low set points. Count-up timer alarm may be set from 23 hours 59 minutes to 1 minute. Sound signals when time is reached. Back-lighting button permits reading in dark areas.

#### Traceable to NIST for accuracy

To assure accuracy an individually serial-numbered Traceable® Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability for temperature only to standards provided by NIST (National Institute of Standards and Technology).

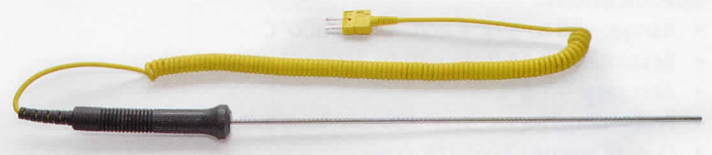
#### Designed for rough handling

Comes ready to use with PVC protective casing with flip-out stand; Traceable® Certificate; three AAA batteries; and fast-response, k-type beaded probe with cable length of 4 feet.

**28163** Traceable® Total Range Digital Thermometer, certificate, k-type probe .....each

### Optional k-type Temperature Probes

#### ■ Low Temperature Probe



- Stainless steel probe
- Triple purpose
- 8 ft. expandable cable

#### Specifications:

- Temperature range is -240 to 220°C (-338 to 428°F)
- Probe dimensions: 12" (30.5cm) long x 0.17" (6.86mm) dia.
- Overall length: 17" (43.2cm)
- 8' (2.44m) expandable cable

Stainless-steel with handle; triple purpose (liquids, air/gas, and semi-solids), k-type (NiCr/ NiAl) probe.

**28164** Low Temperature Probe, k-type .....each

*continued on next page*



## Optional k-type Temperature Probes

*continued*

### ■ High Temperature Probe



- Measures high temperatures
- 10 ft. long
- Metal wire cable

#### **Specifications:**

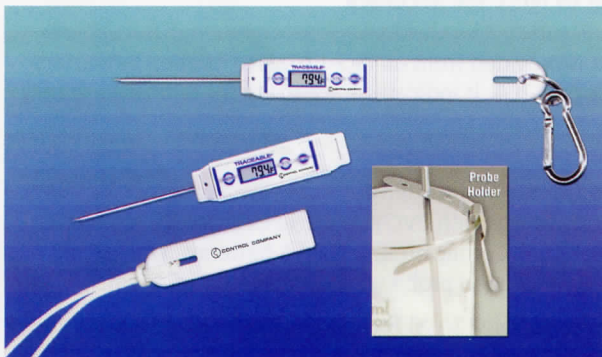
Dimensions: 10 ft. (3m) x 0.19" (4.8mm) diameter. Braided metal wire cable with smooth tip

Measures -73 to 982°C continuous or 1093°C short-term use (-100 to 1798°F)

For use with all k-type thermometers in liquids, air/gas, and semi-solids.

**28165** High Temperature Probe, braided, k-type . . . each

### ■ Traceable® Waterproof Probe Thermometer



- Waterproof
- Membrane switches
- Easy-to-clean stainless steel probe

#### **Specifications:**

- Range: -58 to 572°F and -50 to 300°C
- Resolution: 0.1° from -20 to 200° (1° otherwise)
- Accuracy:  $\pm 1.5^\circ\text{C}$
- Probe dimensions: 3-1/2" (89mm) long x 0.14" (3.6mm) dia.
- Overall length: 7-1/4" (18.4cm)
- Weight: 1 oz. (28.3g)

Traceable, and waterproof, the Probe Thermometer's membrane switches, ABS body, and stainless steel probe make it ideal for use in the laboratory. Waterproof construction allows it to be used in labs, plants, wash-down areas, and the field. Unit eliminates the dangers inherent in breakable glass and toxic mercury thermometers.

At the touch of a button, it displays minimum and maximum readings over any period.

Unique holder allows probe to be positioned at any height while attached to beakers, stainless cylinders, or vats. A flat profile design, the weight of a single ounce, and a built-in pocket clip make

it ideal to carry in a shirt pocket. Probe guard snaps to handle to extend overall length to 10-3/4" (27.3cm). Readings are updated every second.

To assure accuracy an individually serial-numbered Traceable® Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology). Supplied with key chain and lanyard. Large, bright LCD is 1/4" (6.4mm) high. Operates continuously for 1-1/2 years on supplied replaceable silver-oxide battery.

**28169** Traceable® Waterproof Probe Thermometer with certificate . . . . . each

## Infrared Thermometers

### ■ Traceable® Infrared Thermometer with trigger grip and Laser Targeting



- Instant readings
- Min/Max memory
- High/Low alarm
- Laser Targeting

#### **Specifications:**

- Temperature range: -76 to 932°F or -60 to 500°C
- Resolution: 0.1°
- Accuracy:  $\pm 1^\circ\text{C} + 2\%$
- Dimensions: 7" x 2-3/4" x 1-1/2" (177.8 x 69.9 x 38.1mm)
- Weight: 6 oz. (170g)

#### **Complete Description:**

Traceable® Infrared Thermometer has the following performance characteristics. Operation is simple—turn on, point at sam-

ple, and take a reading in less than a second. Units read both Fahrenheit and Celsius of any surface—solids, semi-solids, and liquids. Non-invasive, no-touch measurements are ideal for food preparation, life sciences, pharmaceuticals, petroleum products, clean rooms, electronics, and field use.

#### **Traceable to NIST for accuracy**

To assure accuracy an individually serial-numbered Traceable® Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology). Minimum and maximum feature permits viewing highest and lowest readings at any time. Thermometer displays the average of all readings made and the difference between two readings. Audible, user settable, high and low alarms signal out of range conditions. Hold, freezes the display at the current reading. Backlighting permits viewing in low light conditions. Range using k-type thermocouple jack is -83 to 2552°F and -64 to 1400°C. K-type probe supplied. Memory permits recalling individually captured temperatures. Display indicates low battery. Batteries are supplied with unit.

**28168** Traceable® Infrared Thermometer with trigger grip and k-type thermocouple probe, certificate . . each



## Infrared Thermometers *continued*

### ■ Traceable® Infrared Thermometer with Keychain



- One-hand operation
- Fast reading
- Field view is 6:1

#### Specifications:

- Temperature Range: -5 to 572°F or -20 to 300°C
- Resolution: 0.1°
- Accuracy: (0 to 200°C) ±2°C or 2% of reading
- Emissivity: fixed at 0.95
- Field of view: 6:1
- Dimensions: 2-1/4" x 1" x 4" (57 x 25.4 x 101.6mm)
- Weight: 2 oz. (56g)

#### Complete Description:

Small, lightweight pocket-size Traceable® Infrared Thermometer takes instant – less than a second – temperature readings of any surface. Unique design permits one-handed "point and shoot" readings. Ideal for food preparation, pharmaceuticals, field use, electronics, and safety inspection.

Range is -5 to 572°F and -20 to 300°C with a resolution of 0.1°. Accuracy is (0 to 200°C) ±2°C or 2% of reading. Emissivity is fixed at 0.95. Field of view is 6:1 (Example: Reads a spot the size of 2 inches from 12 inches away.)

Features include single-button operation, backlighting at the touch of a button, data hold (freezes display reading), minimum/maximum readings, low-battery indicator, and °C/°F switching.

#### Traceable to NIST for accuracy

Individually serial-numbered Traceable® Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Includes lanyard for neck or wrist, keychain, soft-sided carrying case, batteries, and Traceable® Certificate.

**28166** Infrared Thermometer with keychain, certificate .....each

### ■ Original Traceable® Lab Timer



Features three channels with distinct alarms. Traceable® Certificate is supplied to indicate traceability to standards provided by NIST. 1 second to 10 hours, easy to use. 75 x 75 x 35mm.

**28161** Original Traceable® Lab Timer .....each

### ■ Traceable® Infrared Thermometer with Wristband



- Laser beam pointer
- Handy wristband
- 0.1° resolution

#### Specifications:

- Temperature range: -67 to 482°F and -55 to 250°C
- Resolution: 0.1°
- Accuracy: ±1°C + 2%
- Dimensions: 4" x 2" x 3/4" (101.6 x 50.8 x 19mm)
- Weight: 2-1/4 oz. (63.7g)

#### Complete Description:

Traceable® Infrared Thermometer has the following performance characteristics: Operation is simple—turn on, point at sample, and take a reading in less than a second. Units read both Fahrenheit and Celsius of any surface—solids, semi-solids, and liquids. Non-invasive, no-touch measurements are ideal for food preparation, life sciences, pharmaceuticals, petroleum products, clean rooms, electronics, and field use.

To assure accuracy an individually serial-numbered Traceable® Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Holds, freezes the display at the current reading. Field of view is 6:1. The emissivity of 0.05 to 1.00 in .01 steps covers 90% of all applications. Minimum and maximum feature permits viewing highest and lowest readings at any time. Laser beam permits perfect sample target sighting. Features a handy wristband. Display indicates low battery. Batteries are supplied with unit.

**28167** Traceable® Infrared Thermometer with wristband, certificate .....each

### ■ Talking Timer Traceable® Timer

*six unique alarm noises, voice alert*



It talks! Natural sounding voice counts down the final seconds, with a choice of six unique alarm noises (tea kettle whistle, honking horn, and more)! Features include count-up and count-down timer, clock, memory, and auto-repeat. Includes stand, pocket clip, magnet, and battery. Provides repeat functions of countdown alarm timing. When zero is reached, the timer alarms and begins to count down again from the programmed time.

**28162** Talking Timer Traceable® Timer .....each



### ■ Extra-Extra-Loud™ Traceable® Timer



*hear alarms even in the noisiest environments*

- Weight: 14.2g (5 ounces)
- One hundred decibels alerts all Perfect for high sound areas.
- Large display visible from 20 feet. Big display is 19mm (3/4") high.

- Programmable, 1 second to 100 hours. When zero is reached, the timer starts counting up to show time elapsed since alarming. Alarm sounds for one minute or may be silenced manually.
- Traceable to NIST for accuracy.
- Supplied with 2-year batteries.
- Dimensions: 101.6 x 63.5 x 12.7mm (4 x 2-1/2 x 1/2").
- Weight: 14.2g (5 ounces).

User-friendly timer features include countdown, stopwatch, time-out and time of day clock.

**28160** Extra-Extra Loud™ Traceable® Timer . . . . .each

### ■ Electronic Timer/Stopwatch



Accurate LCD timer. Use numbered keys to count down from 99 minutes, 99 seconds. Stopwatch mode with time-out feature counts up to 59 minutes, 59 seconds, then automatically rolls over to zero to continue timing. Loud countdown alarm turns off manually or automatically after one minute. LCD digits

are readable from 2.4m (8') away.

Flip-open easel for benchtop use, a spring fastener for clipping to lab coat and a magnetic back for attaching to metal surfaces. Rugged, chemical-resistant ABS case. 6.3 x 5.6 x 1.3cm (2.5 x 2.25 x 0.5"). Supplied with battery.

A serial numbered certificate indicates instrument traceability to standards provided by the National Institute of Standards and Technology.

**54510** Electronic Timer/Stopwatch . . . . .each



### ■ Traceable® Instant-Recall Memory Timer

Input a time and the instant memory always returns the display to the programmed time. This is the ideal timer to dedicate to a routinely timed

test. Bright, extra-large, 5/8" (15.9mm) high digits count down at any set time from 99 minutes 59 seconds to zero. At zero a loud 30-second alarm sounds.

Designed specifically for routine tests, quality control requirements, and repetitive analysis, it is the lab workhorse. The unique memory feature encourages devoting this timer to one piece of laboratory equipment such as a water bath, oven, stirrer, or incubator.

Accuracy is 0.01%. Replaceable AAA battery powers the timer for three years of nominal use. To assure accuracy an individually serial-numbered Traceable® Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Magnetic back allows placing timer on metal surfaces. It lays flat on a bench or may be placed vertically with the flip-open easel. A spring fastener clips to pockets.

Dimensions: 63.5 x 57.2 x 19mm (2-1/2" x 2-1/4" x 3/4")

Weight: 56.7g (2 oz.)

**54511** Traceable® Instant Recall Memory Timer with certificate . . . . .each

### ■ Antistatic Weighing Dishes

*made of polystyrene*



The Weighing Dishes will resist diluted acids, aqueous solutions, alcohols and bases. They are ideal for many applications such as weighing, dispensing or storing. They are safe, contamination-free, biologically inert, economical containers for weighing liquid or powdered samples in the laboratory.

Flat bottom ensures perfect stability on counters. They have a smooth surface providing accurate pour-outs with minimal sample loss. The antistatic properties facilitate weighing of static affected samples.

These weighing dishes can also be used as quick freeze trays for sample material, discard trays for broken ampoules or mixing trays for small batches. Will withstand temperatures up to 80°C.

**20ml, 41 x 41 x 8mm H**

**20155-1** Antistatic Weighing Dish, 20ml . . . . .pkg/500

**100ml, 89 x 89 x 25mm H**

**20155-2** Antistatic Weighing Dish, 20ml . . . . .pkg/500

**330ml, 140 x 140 x 25mm H**

**20155-3** Antistatic Weighing Dish, 330ml . . . . .pkg/500



## ■ Antistatic Pour Boats

*made of polystyrene*



These three sizes of Pour Boats are specially made for the dispensing of powdered and liquid materials. Smooth, uniform and economical, the molded materials used is thicker than conventional weighing dishes. Can be used safely to weigh static affected materials. Will withstand temperatures up to 80°C.

**20ml, 81 x 41 x 8mm H**

**20156-1** Antistatic Pour Boats, 20ml .....pkg/250

**140ml, 133 x 76 x 25mm H**

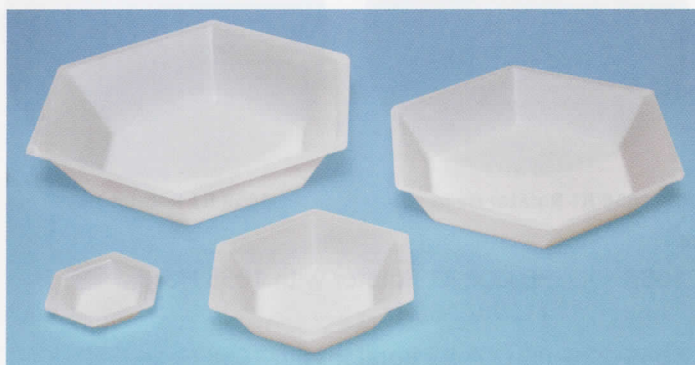
**20156-2** Antistatic Pour Boats, 140ml .....pkg/250

**270ml, 197 x 121 x 25mm H**

**20156-3** Antistatic Pour Boats, 270ml .....pkg/250

## ■ Antistatic Hexagonal Weighing Dishes

*made of polystyrene*



Excellent for handling solids or liquids during weighing. Easily bent into pouring spouts, the dishes enable non-spill transfer. Molded hexagonal design provides greater balance protections and safety. Not reactive with most substances. Suitable for weighing of static-affected samples. The dishes are stackable for easy storage. Will withstand temperatures up to 80°C.

**20ml, Top I.D. 38mm, Base I.D. 25mm**

**20157-1** Antistatic Hexagonal Weighing Dishes,  
 20ml .....pkg/500

**50ml, Top I.D. 60mm, Base I.D. 51mm**

**20157-2** Antistatic Hexagonal Weighing Dishes,  
 50ml .....pkg/500

**200ml, Top I.D. 102mm, Base I.D. 76mm**

**20157-3** Antistatic Hexagonal Weighing Dishes,  
 200ml .....pkg/500

**350ml, Top I.D. 127mm, Base I.D. 89mm**

**20157-4** Antistatic Hexagonal Weighing Dishes,  
 350ml .....pkg/500

## ■ Aluminum Weighing Dishes

*weighing, infiltration, embedding, sample preparation*



### EM pre-embedding

Hint: For sample preparation, use filter paper in the bottom of the aluminum weighing dish for good contrast of specimens, from final infiltration to capsule embedding. Can also be used for mixing embedding chemicals.

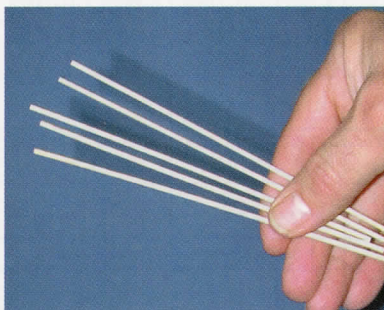
Use **128-2** Applicator Stick for specimen manipulation.

**128-7** Aluminum Weighing Dish,  
 43mm Dia. x 11mm H .....pkg/100

**128-1** Aluminum Weighing Dish,  
 57mm Dia. x 15mm H .....pkg/100

**128-8** Aluminum Weighing Dish,  
 70mm Dia. x 15mm H .....pkg/100

## ■ 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,  
 plain .....pkg/1000



### ■ Biomega Hot Plate, Stirrer and Combination Hotplate and Stirrer



Biomega hot plates, magnetic stirrers and hot plate-stirrers feature an exceptionally durable, chemical resistant white ceramic work surface. Their space-efficient design (20.3 x 22.9cm 8" x 9" footprint), makes them ideal for use

on crowded benchtops and inside of bio-hoods.

Advanced microprocessor controls with convenient turn knobs allow quick, precise adjustment and maintenance of speed and temperature. Safety indicator LED's on the front panel indicate when the heating and / or stirring functions have been activated. Bodies are sturdy, powder coated, cast aluminum construction.

With a square 19cm (7.5") work surface, all three models are compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles and other vessels. The hot plate magnetic stirrer model, Prod. No. 3235, comes complete with a support rod for mounting thermometers and temperature probes.

Specifications

Model	P40-S Stirrer	P40-H Hot Plate	P40-HS Hot Plate/Stirrer
Product Number	3233 / 3233-230	3234 / 3234-230	3235 / 3235-230
Stirrer Speed	60-1500 RPM	-	60-1500 RPM
Temp. Range	-	5-380°C / 41-716°F	5-380°C / 41-716°F
Electrical Data	115V, 5A, 50/60Hz 230V, 3A, 50/60Hz	115V, 5A, 50/60Hz 230V, 3A, 50/60Hz	115V, 5A, 50/60Hz 230V, 3A, 50/60Hz
Power Consumption	500W	500W	550W
Dimensions (W x D x H)	20.3x22.9x11.4cm (8" x 9" x 4.5")	20.3x22.9x11.4cm (8" x 9" x 4.5")	20.3x22.9x11.4cm (8" x 9" x 4.5")
Platform	19 x 19cm (7.5" x 7.5")	19 x 19cm (7.5" x 7.5")	19 x 19cm (7.5" x 7.5")
Weight	4.08kg (9 lbs.)	4.54kg (10 lbs.)	5kg (11 lbs.)

#### Magnetic Stirrer only - no Hot Plate

**3233** P40-S Magnetic Stirrer, 115V .....each

**3233-230** P40-S Magnetic Stirrer, 230V .....each

#### Hot Plate only - no Magnetic Stirrer

**3234** P40-H Hot Plate, 115V .....each

**3234-230** P40-H Hot Plate, 230V .....each

#### Hot Plate and Magnetic Stirrer

**3235** P40-HS Hot Plate and Magnetic Stirrer with Support Rod, 115V .....each

**3235-230** P40-HS Hot Plate and Magnetic Stirrer with Support Rod, 230V .....each

### ■ PELCO® R1 Single Speed Rotator

tissue infiltration for electron microscopy preparations



PELCO® R1 Single Speed Rotator shown in the 35° and 55° positions

This small, economical rotator is suitable for EM preparations. It has a slow speed of approximately 10 rpm. It is effective for gentle and thorough infiltration of fixatives, dehydrates and plastics. The unit includes one head with 12 holes which accommodates vials up to 30mm in diameter. See additional head available with 23 holes (Prod. No. 1056).

#### Dimensions:

Base: 10.2 x 15.6cm (4 x 6-1/8")

Rotor head: (Prod. No. 1058) 15.9cm diameter x 2.7cm high (6-1/4 x 1-1/16"); 12 holes (32mm ø)

Height with head attached: 13.7cm (5-3/8")



1056 R1 Rotator Head



1058 R1 Rotator Head

**1055** PELCO® R1 Rotator with 1058 Head, 115VAC, 60Hz .....each

**1055-220** PELCO® R1 Rotator with 1058 Head, 220VAC, 50Hz .....each

**1058** R1 Rotator Head, 12 holes (32mm ø) ...each

**1056** R1 Rotator Head, 23 holes (16.3mm ø) ..each



## ■ PELCO® R2 Variable Speed Rotator



PELCO® R2 Rotator with 1051 heads, shown in the 35° and 55° positions

The slow rotation speed leads itself to EM tissue processing techniques. Slow rotational and gentle speed lead to more complete infiltration without generating air bubbles, giving improved results.

The R2 has rubber cushioned feet on the bottom as well as on the back so it may be placed on either of 2 angles: 35° from horizontal when placed on the "bottom feet" and 55° from horizontal when placed on the "back feet".

A high torque motor maintains consistent speed at full load. Variable speed is easily set with a rotary control. Rotational speed is 0.5 - 7.5 rpm. Each R2 has been tested under heavy load conditions to assure reliability.

A black anodized head (Prod. No. 1051) with 18 holes for bottles or vials up to 30mm in diameter comes with the R2. Our product numbers 12706 or 12708 Snap Cap Vials are used with this head. Optional head (1254) is available.

### Dimensions:

Body: 18.6cm W (7-5/16") x 16.5cm H (6-1/2") x 20.3cm D (8")

Head: Prod. No. 1051, 19.7cm O.D. (7-3/4") 18 holes, 32mm diameter.

### With 1051 Head mounted the R2 has the following dimensions:

19.7cm W (7-11/16") x 19.5cm H (7-11/16") x 20.3cm D (8").

**Net weight:** 2.4kg (5.25 lbs); Includes one head.

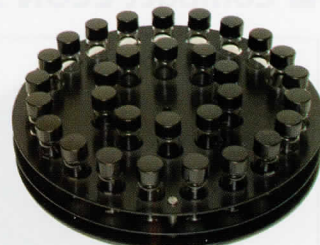
- 1050** PELCO® R2 Rotator with 1051 Head, 115VAC, 60Hz .....each
- 1053** PELCO® R2 Rotator with 1051 Head, 220VAC, 50/60Hz .....each
- 1051** R2 Rotator Head, with 18 holes (32mm ø) ...each
- 1054** Optional R2 Rotator Head, with 31 holes (16.3mm ø) .....each
- 1050-115-1** Replacement Motor, 115V and 220V ..each

## ■ Optional, 1054 Rotator Head

**Dimensions:** Head 19.7cm (7-3/4") O.D., 31 Holes (16.3mm ø)

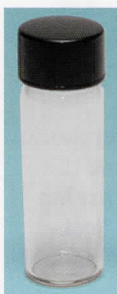


1054 R2 Rotator Head



1054 R2 Rotator Head with No. 411 Specimen Vials loaded

## ■ Wheaton Glass Vials with Rubber Lined Screw Cap



The vials are manufactured using Wheaton 33® low extractable borosilicate glass (meets ASTM Type 1 Class A and USB Type 1 Standards) to protect against changes in pH and maintain purity of contents. They have uniform sidewall and bottom thicknesses, are lightweight and have excellent strength and clarity. Storage down to -40°.

- 1054** Optional R2 Rotator Head, with 31 holes (16.3mm ø) .....each
- 411** Sample Vials, 4ml, 15mm dia. x 48mm H ...cs/144

## ■ Wheaton Snap-Cap® Specimen Vials



The vials are manufactured using 33® low extractable borosilicate glass (meets ASTM Type 1 Class A and USB Type 1 Standards) to protect against changes in pH and maintain purity of contents. They have uniform sidewall and bottom thicknesses, are lightweight and have excellent strength and clarity. Storage down to -40°.

- 12706** Glass Wheaton Snap-Cap® Vials (with caps), 24ml, 30mm OD x 52mm H .....case/144



## Compact and Portable Scales

### ■ Compact ECON Series Scales



The ECON series offers more than just precise weighing results "on the move" or "in the lab". Its compact design, large LCD display, rugged ABS housing, heavy-duty weight cell and advanced mi-

croprocessor make the ECON series the best in its class.

Its unique design is both rugged and practical-perfect for every day use. Its exclusive stackable housing makes it easy and convenient to safely store the product in large numbers, great for schoolroom applications and more. The transportation "lock-switch" located on the bottom of the scale ensures safe portability for years of operation.

The line consists of four models from 210 to 4,100 gram capacity with readabilities from 0.1 to 1.0 grams. Engineered for maximum efficiency, these economy scales offer high performance at a great price.

#### Product features and highlights:

- Advanced microprocessor for accurate weighing results
- Rugged ABS housing with exclusive stackability for safe convenient storage
- Lock-switch for safe transportation
- Large LCD display
- Simple 3-key operation with external one-button calibration
- Lock-down capability
- Five weighing modes: g, lb, oz, dwt, ozt
- Included 9 volt battery (or optional AC adapter)
- Low battery, overload and underload indicators with auto shut-off

Product No.	3160-20	3160-40	3160-25	3160-45
Capacity	210g	410g	2100g	4100g
Readability	0.1g		1g	
Weight Modes	g, lb, oz, dwt, oz			
Calibration Weight	200g (not included)		200g (not included)	
Pan Size (WxL)	135 x 140mm (5.3" X 5.5")			
Dimensions	159 X 218 X 52.6MM (6.26" X 8.6" X 2.07")			
Power	Included 9 volt battery (or optional AC adapter)			

- 3160-20** Compact Scale, 210 x 1g .....each  
**3160-25** Compact Scale, 2100 x 1g .....each  
**3160-40** Compact Scale, 410 x 1g .....each  
**3160-45** Compact Scale, 4100 x 1g .....each

### ■ POCKET-PRO® Scales/Balances



These balances are the ultimate in portability and are the perfect choice for sample prep, science kits, & specialty markets. They feature a back-lit display, simple operation, and a unique pan design which protects the scale during transportation and storage.

#### Product features and highlights:

- Calibration weight and tray included with all models
- Blue back-lit display for easy viewing in all ambient conditions
- Scales weigh in Grams & Ounces (3170-60 features grams, ounces, grains & carats)
- Battery operation (one AA battery included)
- Auto off (saves battery life)
- Overload/Underload & low battery indicators
- External one button calibration with included weight
- 12 month manufacturer warranty

Product No.	3170-20	3170-40	3170-60
Weight Modes	g, oz		g, oz, grain, carats
Capacity	200g / 7.2 oz	400g / 14.4 oz	65g / 2.3 oz
Readability	0.1g / 0.005 oz	0.1g / 0.01 oz	0.01g / 0.001 oz
Linearity (g)	±0.2g		±0.02g
Calibration Wt.	100g	200g	50g
Power	1 AA Battery (included)		
Pan Size (WxLxD)	60 x 60 x 4.76mm (2.375" x 2.375" x .187")		
Dimensions	75 x 110 x 20mm (2.95" x 4.33" x 0.8")		

- 3170-20** Pocket-Pro® Portable Scale, 200 x 0.1g ...each  
**3170-40** Pocket-Pro® Portable Scale, 400 x 0.1g ...each  
**3170-60** Pocket-Pro® Portable Scale, 65 x 0.01g ...each



## Ultraviolet Lamps

### ■ Blak-Ray® UV, Ultraviolet Lamp with Spot Bulb



Blak-Ray® delivers high intensity long-wave (365nm) ultraviolet light; A 100 watt lamp for an intensity of 21,700  $\mu\text{W}/\text{cm}^2$  @ 5cm or 8,900  $\mu\text{W}/\text{cm}^2$  @ 25cm distance. Applications in microscopy include specimen staining and curing polymers. At 45cm the spot-bulb produces a highly intense center of illumination approximately

13cm in diameter. The lamp head rotates a full 360° and can be removed for convenient hand use. The lamp head (scratch-resistant, powder painted aluminum) is connected to the transformer by a 6.5 ft. (2m) cord.

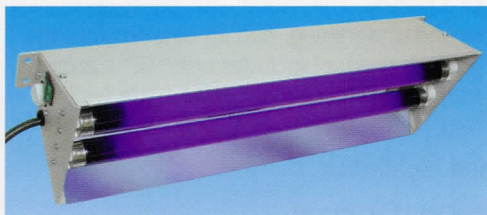
A 12.7cm (5") black light filter is recessed in the head.

A second filter option will reduce visible light, so that finer detail is achieved on the subject.

- 23050** Ultraviolet Lamp, Spot-Bulb, 115VAC . . .each
- 23050-220** Ultraviolet Lamp, Spot-Bulb, 220VAC . . .each
- 23051** UV Bulb for #23050 units after 6-2002 . . .each
- 23052** UV Bulb for #23050 units  
before 6-2002 . . . . .each
- 23054** Extra Filter for #23050 . . . . .each

### ■ Blak-Ray® Ultraviolet Lamp

*may be used for curing of certain embedding media*



High intensity ultraviolet lamps which give broad coverage of long wavelength UV for large areas. Two 15-watt self-filtering long-

wave tubes. 1600  $\mu\text{W}/\text{cm}^2$  of 365nm UV radiation at 15cm (6").

The metal lamp housing with aluminum reflector is 502 x 152 x 108mm (length x widest section x depth) (19- $\frac{3}{4}$  x 6 x 4- $\frac{1}{4}$ "). Includes wall brackets. Weight: 2.3kg (5 lbs). UL listed.

Weight: 56.7g (2 oz.)

- 23060** Ultraviolet Lamp, (without UV Tubes),  
115 VAC . . . . .each
- 23061** Ultraviolet Lamp, (with UV Tubes), 115 VAC .each
- 23062** Ultraviolet Lamp, (without UV Tubes),  
220VAC . . . . .each
- 23065** Ultraviolet Tube, 15 watts (2 required) . . . . .each

## ■ MC-6600 Mini Centrifuge



The MC-6600 mini-centrifuge is ideal for a quick, easy, and economical way to spin down micro samples, perform microfiltration work and cell separations. The easy-open lid permits convenient single-handed operation. The clear lid and electronic safety cut-off allow the user to safely observe samples at all times.

The mini-centrifuge quickly accelerates to maximum speed (6,600 rpm/2,200 rcf) and stops within seconds. The advanced motor mounting system provides quiet, vibration-free operation.

The MC-6600 centrifuge includes a traditional angle rotor with capacity for six standard microtubes (1.5ml to 2.0ml) as well as a strip tube rotor for 2 PRC strips or sixteen individual 0.2ml tubes. Additional adapters are also included for 0.5ml tubes. The rotors can be easily interchanged by the user within a matter of seconds.

- Ideal for quick spin downs
- Ideal for Clinical Diagnostic Labs
- Ideal for Clinical Veterinarian Labs
- Quiet and Compact design
- Complete with standard microtube and strip tube rotors
- Vibration-free operation

<b>RPM</b>	6,600 rpm
<b>RCF</b>	2,200 x g
<b>Max Capacity</b>	
- Microtube Rotor	6 x 1.5 / 2.0ml
- PCR Strip Rotor	2 x 8-Strips or 16 x 0.2ml tubes
<b>Dimensions</b>	5 x 5.4 x 3.9" (12.6 x 13.8 x 10cm)
<b>Operating Temp. Range</b>	+4 to 65°C
<b>Electrical</b>	90v to 230VAC, 50/60 Hz, 0.1 A

- 1059** MC-6600 Mini Centrifuge, Blue, Includes both rotors and 6 adapters . . . . .each
- 1059-10** Extra microtube rotor (6 x 1.5ml to 2.0ml) . .each
- 1059-15** Extra tube adapters(6) for 0.5ml tubes. Fits into microtube rotor . . . . .each
- 1059-20** Extra strip rotor (16 x 0.2ml) . . . . .each

## ■ Illuminated Magnifier Workstation



*biological and medical specimens, photography, machine and assembly work*

Horizontal, vertical and rotary movements with a well-designed optics element and illumination source. Standard U.S. bulb size.

- 115VAC, 60Hz.
- Magnification: 3x
- Effective Aperture: 130mm
- Illumination: Circular fluorescent lamp, (110VAC, 20W)
- Platform area: 19 x 16 cm

*Continued*



## ■ Illuminated Magnifier Workstation

*continued*

- Weight: 3kg (6.6 lbs.) net
- Size: Length: 29.7cm; Width: 17.2cm; Height: 39.5cm

- 746** Illuminated Magnifier Workstation . . . . .each  
**746-5** Circular Fluorescent Replacement Bulb . . . . .each

## ■ Magnifier Workstation Auxiliary Lens



A 60mm diameter 3x magnifier. Placed on the work station lens, it increases the magnification to 5x for more accurate observation.

- 746-A** Illuminated Magnifier Workstation . . . . .each

## ■ Illuminated Magnifier Workstation with Light Table



Illumination is provided around the lens. In addition, the same type of circular fluorescent bulb is used in the light box in the base. The light box light is diffused by a translucent white pane. Excellent for forensic and photographic applications. Useful for viewing textiles, negatives, slides, paper or anything that can be made more discernible by having light come from behind.

There are separate switches for the top light and the light box light. 115V.

Note: Auxiliary Lens on previous page may be used with this workstation.

- 747** Illuminated Magnifier Workstation with Light Table . . . . .each  
**746-5** Circular Fluorescent Replacement Bulb . . . . .each

## ■ 2x Magnifier Lamp with Table Clamp

This magnifier lamp is an ideal tool to view objects at two times magnification. The integrated illumination provides additional light for clearer images and vivid details.



Designed specifically for laboratory and assembly applications requiring precise work. Useful in sample preparation, failure analysis, quality control, inspection,

biological analysis, assembly and electronics.

Large viewing area (4"x2-1/2") is easy on the eyes. Glass lens provides a crisp image. Sliding shutter protects lens from dust and

scratches when not in use.

Integrated, bright 60W elongated incandescent bulb lights the area to be viewed and resembles daylight for optimal color detection. Convenient front handle provides easy control to raise, lower, extend and pivot the magnifier lamp. Max. extension is 31 inches. Clamps vertically or horizontally to bench top or side to a thickness of 2-1/8".

115V/60Hz version only. UL and CSA listed.

- 7410** 2x Magnifier Lamp, 115V/60Hz . . . . .each  
**7410-1** 60W (115V/60Hz) incandescent replacement bulb for 7410 . . . . .each

## Brother Tapes and P-Touch Labeling Systems

The P-touch professional labeling system by Brother provides the easiest way to print great looking labels for your lab, home or office. Brother printers have the ability to print on labels that provide a superior look. The innovative style of high strength laminated tape is abrasion, chemical, moisture and fade resistant. There is a wide selection of different label colors and styles that can be produced with different fonts and label sizes depending on your application. Labels can also be produced from information stored on your computer.

### ■ Model PT-1280



The PT-1280 is a sleek, stylish handheld labeler that uses the "TZ" series of laminated tapes up to 1/2" wide. This model also has the ability to print on a "super narrow" 1/8" non-laminated tape that is perfect for labeling CD spines. The PT-1280 prints 3 type sizes and 9 type styles - all accessible from its easy-to-use

keyboard, which features raised, angled keys for more accurate input. With the PT-1280, you can save and print your favorite labels with the touch of a button. This model also prints up to two lines, has text framing and underlining, and an easy to view 15 character LCD displays. This product includes one "TZ" starter tape cassette and a user's manual. Uses 6 "AAA" batteries (not included).

### Product features and highlights:

- Easy to use 15 character LCD display
- Prints up to 2 lines
- 3 favorite keys - to save and print your favorite labels in seconds
- Prints on four different label widths, up to 1/2" wide handheld portable design
- 6 auto formats and 8 framing options
- 3 type sizes, automatically adjusts the text size according to the tape width
- Optional AD30 AC adapter

- 26102** PT-1280 Home and Office . . . . .each  
**26102-1** AD30 AC Adapter . . . . .each



## ■ Model PT-2100



The PT-2100 PC-connectable labeling system has an eye catching design that is sleek and aerodynamic in shape and size. The PT-2100 allows you to create labels exactly the way you want with the 16-character x 3 line display featuring 4 sharp fonts. The "preview" key allows you to check your text before printing. This unit prints on up to

3/4" wide laminated tape for indoor/outdoor use. The PT-2100 features 7 type sizes, 10 type styles and 92 different symbols. The PT-2100 package includes AC adapter, black on white laminated starter tape, P-touch Editor software, user manual and warranty.

### Product features and highlights:

- Great for labeling Presentation material, Letters, Packages, CD's and Diskettes
- USB Ready to easily connect to your PC
- Print high quality laminated "TZ" labels up to 3/4" wide
- Add graphics, logos, pictures or bar codes to easily create custom labels
- Wide 16-character x 3 line LCD display

**26104** PT-2100 PC-Connectable .....each

## ■ Model PT-2700



The PT-2700 is the flagship desktop labeler for Brother. This feature-packed model can be used as a portable labeler, or connected to a PC and has a huge, back-light display for easy viewing. The time and date can be displayed and printed. The PT-2700 will print up to 7 lines, in 8 font sizes and 12 type styles. Over 100 different

symbols and 19 frame styles are available to jazz up your labels. You can store 99 labels to memory. The PT-2700 operates on the included AC adapter or 8 AA batteries (not included). Also included are black and white laminated TZ tape, USB Interface cable, CD-ROM and user manual.

### Product features and highlights:

- Large 16-character x 3 line LCD, with a vivid "Back Light" for easy viewing
- Use alone or with PC or Mac
- Prints up to 7 lines of clear text
- Select up to 8 fonts and 12 text styles

**26106** PT-2700 High-Performance .....each

## ■ Model PT-1230-PC



The PT-1230-PC is great for labeling file folders, storage containers, and much more, the PT-1230 PC is an easy-to-use PC-connectable label maker. Its intuitive label making program, requires no software installation. The PT-1230-PC's design is durable and prints laminated labels up

to 1/2" wide using your PC keyboard and monitor. The PT-1230-PC prints exactly what you see on your screen. It is capable of printing multiple lines of text, graphics, and all true type resident fonts. Its compact footprint and built-in manual cutter supports maximum efficiency. The PT-1230-PC supports PC USB Connectivity. This unit includes 1/2" (5m) black on white "TZ" laminated tape, and a USB cable. The PT-1230-PC uses 6 "AAA" batteries (not included) or the AD-24 AC adapter (optional).

### Product features and highlights:

- PC-Connectable Label Maker
- Plug and Label Technology
- Prints labels up to 1/2" wide
- Manual tape cutter
- Use existing computer keyboard for input
- PC USB connectivity (cable included)
- Compatible with Windows 2000, XP, and Vista
- Supports all scalable fonts on your PC
- Barcoding printing available

**26108** PT-1230-PC Plug and Label .....each

**26108-1** AD-24 AC Adapter .....each

## ■ Model PT-2430-PC



The PT-2430-PC is perfect for a busy lab because virtually anyone can begin using it simply by connecting it to their PC. The intuitive built-in software enables users to produce labels for a majority of typical laboratory needs. No software installation is required because the easy to use software is

preloaded on the label maker. That means when you're done, simply turn it off and unplug. There's nothing left behind on your PC. Creating labels is a snap. The PT-2430-PC can make complex labels with a variety of symbols. Using your PC's mouse and keyboard makes typing and designing your labels easier than ever. Use any of your PC's installed true type fonts. Import graphics like logos and symbols from your PC. Make and print almost any label that you can imagine. Plus, you can save your label designs to your desktop for future use. AC adapter included.

### Product features and highlights:

- PC-Connectable Label Maker
- Plug and Label Technology
- Prints labels up to 1/2" wide
- Automatic tape cutter

*continued on next page*



### ■ Model PT-2430-PC *continued*

- Use existing computer keyboard for input
- PC USB connectivity (cable included)
- Compatible with Windows 2000, XP, and Vista
- Supports all scalable fonts on your PC
- Barcoding printing available

**26110** PT-2430-PC Plug and Label . . . . .each

	PT-1280	PT-2100	PT-2700	PT-1230-PC	PT-2430-PC
<b>Description</b>	Affordable Home and Office Labeler	PC-Connectable Labeling System	High-Performance Labeling System	Computer Plug and Label	Computer Plug and Label
<b>Maximum Label Size</b>	Up to 1/2"	Up to 3/4"	Up to 1"	Up to 1/2"	Up to 1"
<b>PC/Mac Connectable</b>	No	Yes	Yes	Yes	Yes
<b>9 / 64" (CD Spine)</b>	Yes	Yes	Yes	Yes	Yes
<b>Lines Printed</b>	Up to 2	Up to 5	Up to 7	Multiple	Multiple
<b>Labels Stored in Memory</b>	None	Up to 9	Up to 99	All	All
<b>Display</b>	15 char by 1 Line	16 char by 3 Lines	16 char by 3 Lines	All	All
<b>Symbols</b>	63	92	121	All	All

TZ Tapes	1/4"	3/8"	1/2"	3/4"	1"
Black on White	26120-5	26120-10	26120-15	26120-20	26120-25
Black on Clear	26122-5	26122-10	26122-15	26122-20	26122-25
Black on Red		26124-10		26124-20	26124-25
Black on Yellow			26126-15	26126-20	26126-25
Black on Green				26128-20	
Black on Blue				26130-20	
Black on Fl Orange				26132-20	26132-25
White on Black	26140-5	26140-10	26140-15	26134-20	26140-25
White on Clear				26136-20	
White on Blue				26138-20	
Red on White			26140-15	26140-20	26140-25
Blue on White				26142-20	
Gold on Black			26144-15	26144-20	26144-25
<b>TZ Industrial Laminated Tapes</b>					
Black on White	26150-5	26150-10	26150-15	26150-20	26150-25
Black on Clear	26152-5	26152-10	26152-15	26152-20	26152-25
<b>TZ Cleaning Tapes</b>					
Dry Tape				26160-20	
<b>TZ Security Tapes</b>					
Black on White				26170-20	

## The Science of P-Touch Lamination

### The Tape Structure

The Brother laminated tape structure consists of six layers of material that are surprisingly thin, yet strong. The P-touch labels print on the underside on the laminate, sandwiching text between two layers of film, making the characters virtually indestructible.

### Abrasion Resistance

The Brother laminated tape structure is durable and abrasion resistant. Brother laminated tapes are only slightly scratched in abrasion resistance tests after 50 round trip passes with a 1kg weighted sand eraser.

### Chemical Resistance

The Brother laminated tape structure is water and chemical resistant. The laminated tapes were bathed in a variety of materials for two hours and they still managed to remain affixed to their sur-

faces with little damage. Even after caustic chemical spills, with a quick wiping, there is minimal damage to the tape.

### Fade Resistance

Brother tapes are fade resistant. Brother laminated tapes were attached to coated metal plates, and the plates were placed into a fade-inducing chamber at 83°C for 100 hours to simulate a year in a sunny environment. Then the tapes were placed in a humidity chamber at 64°C for 400 hours to simulate a year in, not only heat and light, but water as well. Only yellow tapes showed significant signs of fading while other tapes showed little signs of fading to the eye.

### Adhesive Strength

Brother laminated tapes will adhere to almost any surface including stainless steel, glass, polypropylene, acrylic, PVC, and polyester-coated wood. The tapes stand up to hot, cold, and humid conditions. Smooth, rough, flat or rounded surfaces are no problem for these tapes. The industrial tapes have twice the adhesive of the regular tapes, allowing them to be applied to a much wider range of materials and under more extreme conditions. The security tape has a special adhesive so when the label is peeled off it leaves a checker-board pattern. This tape is used for permanently marking company equipment and assets.

## Labeling Tape for PT-1280 and PT-1230-PC

<b>26122-5</b>	1/4" Black on Clear . . . . .each
<b>26122-10</b>	3/8" Black on Clear . . . . .each
<b>26122-15</b>	1/2" Black on Clear . . . . .each
<b>26120-5</b>	1/4" Black on White . . . . .each
<b>26120-10</b>	3/8" Black on White . . . . .each
<b>26120-15</b>	1/2" Black on White . . . . .each
<b>26140-15</b>	1/2" Red on White . . . . .each
<b>26134-5</b>	1/4" White on Black . . . . .each
<b>26134-10</b>	3/8" White on Black . . . . .each
<b>26144-15</b>	1/2" Gold on Black . . . . .each
<b>26134-15</b>	1/2" White on Black . . . . .each
<b>26124-10</b>	3/8" Black on Red . . . . .each
<b>26126-15</b>	1/2" Black on Yellow . . . . .each

## Labeling Tape for PT-2100

(all of the above plus the following)

<b>26122-20</b>	3/4" Black on Clear . . . . .each
<b>26136-20</b>	3/4" White on Clear . . . . .each
<b>26120-20</b>	3/4" Black on White . . . . .each
<b>26140-20</b>	3/4" Red on White . . . . .each
<b>26142-20</b>	3/4" Blue on White . . . . .each
<b>26144-20</b>	3/4" Gold on Black . . . . .each
<b>26134-20</b>	3/4" White on Black . . . . .each
<b>26124-20</b>	3/4" Black on Red . . . . .each
<b>26130-20</b>	3/4" Black on Blue . . . . .each
<b>26138-20</b>	3/4" White on Blue . . . . .each
<b>26126-20</b>	3/4" Black on Yellow . . . . .each
<b>26128-20</b>	3/4" Black on Green . . . . .each
<b>26132-20</b>	3/4" Black on Fl Orange . . . . .each
<b>26160-20</b>	Dry Tape . . . . .each

*continued on next page*



*Labeling Tape Continued*

**Laminated Labeling Tape for PT-2100**

<b>26152-5</b>	1/4" Black on Clear, Industrial Laminated Tape . . . . .	each
<b>26152-10</b>	3/8" Black on Clear, Industrial Laminated Tape . . . . .	each
<b>26152-15</b>	1/2" Black on Clear, Industrial Laminated Tape . . . . .	each
<b>26152-20</b>	3/4" Black on Clear, Industrial Laminated Tape . . . . .	each
<b>26150-5</b>	1/4" Black on White, Industrial Laminated Tape . . . . .	each
<b>26150-10</b>	3/8" Black on White, Industrial Laminated Tape . . . . .	each
<b>26150-15</b>	1/2" Black on White, Industrial Laminated Tape . . . . .	each
<b>26150-20</b>	3/4" Black on White, Industrial Laminated Tape . . . . .	each
<b>26170-20</b>	1/4" Black on White, Security Tape . . . . .	each

**Labeling Tape for PT-2700 and PT-2430-PC**

(all of above plus the following)

<b>26122-25</b>	1" Black on Clear . . . . .	each
<b>26120-25</b>	1" Black on White . . . . .	each
<b>26140-25</b>	1" Red on White . . . . .	each
<b>26144-25</b>	1" Gold on Black . . . . .	each
<b>26134-25</b>	1" White on Black . . . . .	each
<b>26124-25</b>	1" Black on Red . . . . .	each
<b>26126-25</b>	1" Black on Yellow . . . . .	each
<b>26132-25</b>	1" Black on Fl Orange . . . . .	each
<b>26152-25</b>	1" Black on Clear, Industrial Laminated Tape . . . . .	each
<b>26150-25</b>	1" Black on White, Industrial Laminated Tape . . . . .	each

**■ Parafilm M® Laboratory Film**



**Parafilm M® Laboratory Film**

Moisture-resistant thermoplastic for research in clinical and industrial laboratories. Permeable to gases. Flexible, moldable, self-sealing, semi-transparent, practically colorless and odorless. Picks up film and grids from liquid surfaces and acts as a surface for single-drop staining for electron microscopy.

**Roll sizes and General Purposes**

(any size may be used for EM applications)

**5cm x 76.2 meters (2" wide x 250' long)**

Prod. No. 807-6 For smaller applications, 2" squares can be cut quickly with the dispenser and used for test tubes, flasks, and covering irregular surfaces. In horticultural research, Parafilm M® is used to seal grafts and cut stems to prevent moisture loss.

**10cm x 38.1 meters (4" wide x 125' long)**

Prod. No. 807 Saves time when medium sized sheet or strips are needed for larger beakers, tubes, trays, containers and culture media.

**50.8cm x 15.2 meters (20" wide x 50' long)**

Prod. No. 807-4 Horticulture research as a membrane for insect feeding, tray and shelf liner for bottles and instruments and other laboratory EM and microscopy applications.

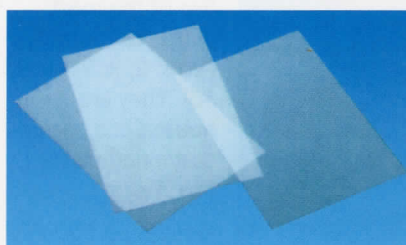
**807** Parafilm M® 10cm x 38.1m (4" x 125') . . . . .each

**807-4** Parafilm M® 50.8cm x 15.2m  
(20" x 50", in Tube) . . . . .each

**807-5** Parafilm M® 10cm x 76.2m (4" x 250') . . . . .each

**807-6** Parafilm M® 5cm x 76.2m (2" x 250') . . . . .each

**■ Melinex Film**

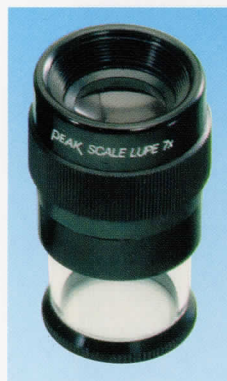


Sheets of Melinex film, 175µm thick, make a very convenient substrate for growing cell cultures and for later incorporation into blocks. Sheet size: 210 x 297mm.

**808** Melinex Film . . . . .pkg/5



### ■ Measuring Magnifier, 7x



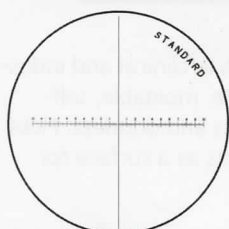
*simplicity, accuracy, economic in cost*

Coated achromatic lenses comprised of 3 elements and 2 groups. With metric scale 20mm long, having 0.1mm divisions or inch scale 0.8" long, having 0.005" divisions. Focusing ring. Objective lens: 19mm. With case, lens cap and cloth.

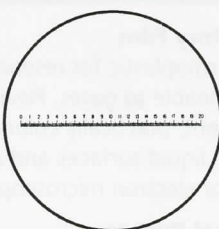
Field of view: 24mm; Eyepiece: 18mm; Scale diameter: 26mm

Diameter: 36mm; Height: 44mm

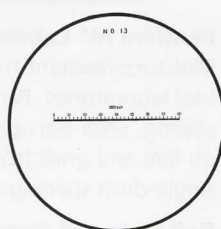
Weight: 56g.



Standard Metric Scale  
Comes with Metric Magnifiers  
0 to ±10mm



Reticle No. 8, Metric Scale  
0 to 20mm, 75318



Reticle No. 13, Inch Scale  
0 to .8", 75346

**751** Measuring Magnifier, 7x,  
w/Standard **Metric** Scale .....each

**75120** Measuring Magnifier, 7x,  
with **Inch** Scale .....each

#### Optional Scales for 7x Magnifier

**75318** **Metric** Scale for Measuring Magnifier,  
7x (751), Reticle No. 8, 26mm .....each

**75346** **Inch** Scale for Measuring Magnifier,  
7x (75120), Reticle No. 13, 26mm .....each

**751-1W** **Metric** Scale for Measuring Magnifier,  
7x, Standard Scale, White Line, 26mm ....each

**751-1R** **Metric** Scale for Measuring Magnifier,  
7x, Standard Scale, Red Line, 26mm .....each

### ■ Measuring Magnifier, 7x Set



Included are the 751 Magnifier, 7x, and five of the most widely used reticles (No's. 2, 3, 7, 8 and 10). They are housed in a handy, cushioned plastic box.

*Reticles pp 000-000*

**751-2** Measuring Magnifier, 7x Set .....each

### ■ Measuring Magnifier, 10x

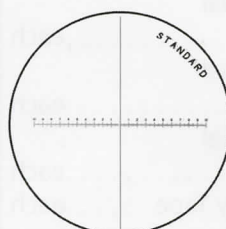


Fine quality, coated achromatic lenses, (4 elements, 2 groups), precision made. Objects are easily visualized and accurately measured. High resolving power and wide visual field. With metric scale 20mm long, having 0.1mm divisions or inch scale 0.8" long, having 0.005" divisions. With case, lens cap and cloth.

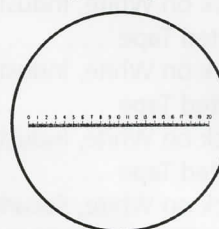
Field of view: 28mm; Eyepiece: 20mm; Scale diameter: 35mm.

Diameter: 46mm; Height: 44mm

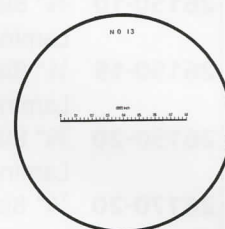
Weight: 74g.



Standard Metric Scale  
Comes with Metric Magnifiers  
0 to ±10mm



Reticle No. 8, Metric Scale  
0 to 20mm, 75338



Reticle No. 13, Inch Scale  
0 to .8", 75348

**752** Measuring Magnifier, 10x ,  
w/Standard **Metric** Scale .....each

**75220** Measuring Magnifier, 10x,  
with **Inch** Scale .....each

#### Optional Scales for 10x Magnifier

**75338** **Metric** Scale for Measuring Magnifier,  
10x (752), Reticle No. 8, 35mm .....each

**75348** **Inch** Scale for Measuring Magnifier,  
10x (75220), Reticle No. 13, 35mm .....each

### ■ Measuring Magnifier, 10x Set



Included are the 752 Magnifier, 10x, and five of the most widely used reticles (No's. 2, 3, 7, 8 and 10). They are housed in a handy, cushioned plastic box.

*Reticles pp 000-000*

**752-2** Measuring Magnifier, 10x Set .....each