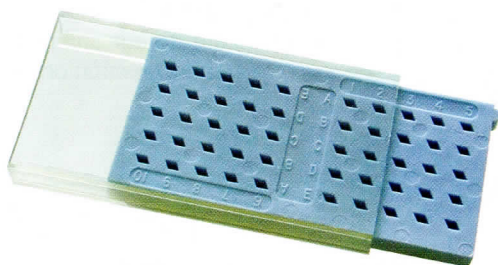


TEM Grid Storage

■ PELCO® Grid Storage Box



holds 50 transmission electron microscopy grids, compartments widely spaced for ease of use

Commonly used compact grid box for 50 standard

3.05mm TEM grids. A smoothly-sliding clear plastic cover is matched to a tough, clean, self-lubricating base. The diamond-shaped grid compartments are designed to minimize awkward wrist or hand movements. The depth of the holes restricts grid movement when transported. The materials selected for the PELCO® Grid Box are static dissipative to avoid static charges on the grids. Dimensions: 76 x 36 x 5 mm (without cover); 76 x 40 x 5 mm (with cover).

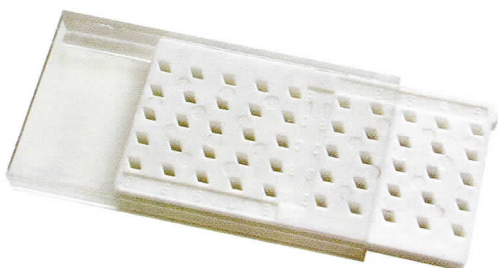
160 PELCO® TEM Grid Storage Boxeach

■ Record Storage Card

A grid identification sheet is available which folds (in thirds) into the same size as the PELCO® Grid Storage Box. 50 spaces are provided for alphanumeric listing, and a space next to it is used for data such as experiment number, patient or case number, etc. Pad of 100 sheets. *courtesy of Robert F. Bills*

160-14 PELCO® Grid I.D. Sheets, pad/100each

■ PELCO® Tabbed Grid Storage Box



Holds up to 50 tabbed 3.05mm TEM grids in alphanumeric labeled compartments. The box is similar to #160 Grid Storage Box except that the

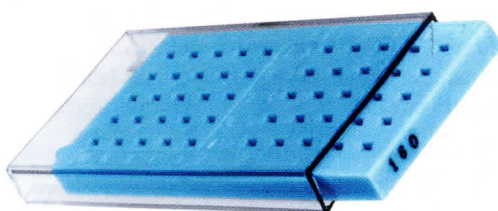
body is made deeper to accommodate the extra depth necessary when PELCO® Tabbed TEM Grids are used. Dimensions: 76 x 36 x 7 mm (without cover); 76 x 40 x 7 mm (with cover).

161 PELCO® Tabbed Grid Storage Boxeach

Record Keeping (folds in thirds to fit the Grid Box size)

161-14 PELCO Grid Box I.D. Sheets, pad/100each

Numbering Service for PELCO® Grid Storage Boxes
No. 160 and 161



Grid Storage Boxes style **160** Standard and style **161** Tabbed may be ordered consecutively numbered.

Numbers are permanently stamped into the end as shown. 100 piece minimum for numbering and 4 digits maximum

Choosing Your Numbers: Use No. **160-7** or **161-7** when ordering a 1-100 numbered set and use No. **160-9** or **161-9** for a special number sequence. Note: Special numbering sequence sets are limited to four digits and are non-returnable. Orders are non-cancellable.

160-7 PELCO® Grid Storage Boxes, Numbered 1-100 each

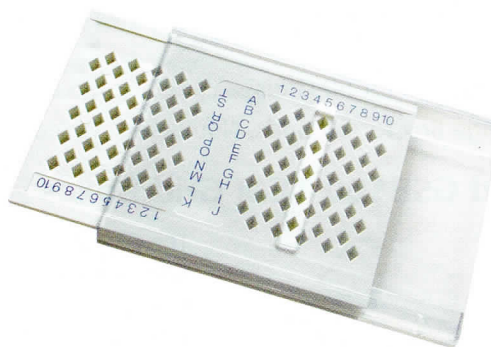
160-9 PELCO® Grid Storage Boxes, Special Numbering, specify sequence, Max. 4 digitseach

161-7 PELCO® Tabbed Grid Storage Boxes, Numbered 1-100each

161-9 PELCO® Tabbed Grid Storage Boxes, Special Numbering, specify sequence, Max 4 digits ...each

■ Gilder Grid Box

for 100 Grids



Intended for use in both routine grid handling and long term grid storage. Holds 100 transmission electron microscopy grids. Each of the diamond shaped compartments will accept a

standard 3.05mm grid. Each position has a letter and number molded into the surface of the box. To further ease grid handling, the plastics are anti-static treated. A central access position in the lid reduces the number of grids exposed when selecting any particular grid. Dimensions: 85 x 59 x 7mm (3.35" x 2.32" x .28")

Grid Storage Record Card

A record card is supplied free with each SB100 grid box. The folding card has a durable coated exterior and the interior is suitable for writing with normal pen or pencil.

SB100 Grid Storage Box for 100 Grids, with a Record Cardeach

Gilder Grid Box, Numbered

Numbered on the front of the box, and on the end. The individual box numbers are never repeated, they are truly unique. They are also supplied in sequence.



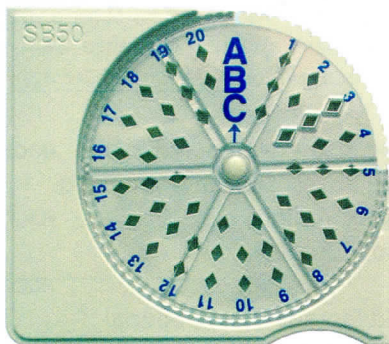
SB100BN Gilder Grid Box, Numberedeach

STORAGE

TEM Grid Storage Boxes; Dial-A-Grid; Multi-Purpose and Block Holder

TEM Grid Storage *continued*

■ Gilder Grid Storage Box



for routine handling and long time storage of 50 standard size TEM grids

The clear cover can be rotated smoothly once the slight resistance of the park position has been overcome, exposing a maximum of 2 or 3 diamond shaped holes at a time. The material is anti-static and the cover is self-

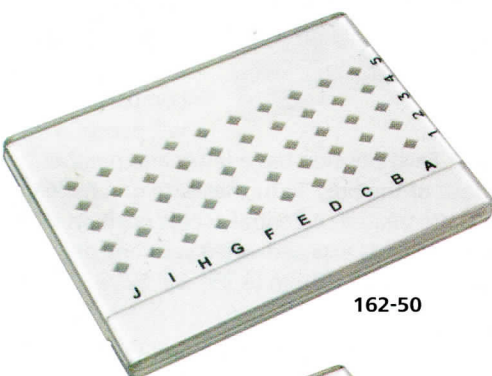
lubricating, reducing friction.

The 50 diamond shaped holes have an alphanumeric reference system and each box is supplied with an indexed record card. The boxes can be stacked. Dimensions: 75 x 65 x 7.3mm (2.95 x 2.56" x .29").

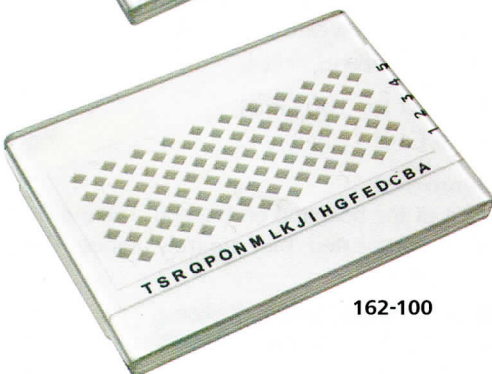
SB50 Grid Storage Box for 50 Gridseach

SB50N Grid Storage Box for 50 Grids, Numbered . . .each

■ GSB50 and GSB100 TEM Grid Boxes



162-50



162-100

The GSB50 and GSB100 TEM Grid Storage Boxes are used to store TEM grids for routine grid handling, transport and long term TEM grid storage for standard 3.05mm grids. Compartments are diamond shaped for safe grid storage. Easy position identification with number/letter combination printed on the white grid body. Both body and clear sliding lid are anti-static treated. A paper

grid storage record card with printed ID numbers is included with both the GSB50 and GSB100 TEM Grid Storage Box. Dimensions for both boxes 75 x 55 x 6.5mm (2.95" x 2.17" x .26").

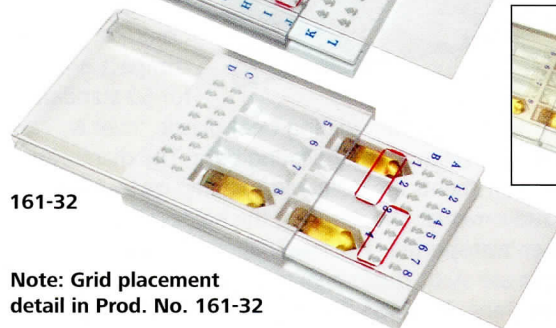
162-50 GSB50 Grid Storage Box for 50 Grids, Record Card includedeach

162-100 GSB100 Grid Storage Box for 100 Grids, Record Card includedeach

■ MEM - Multi Purpose EM Grid Boxes

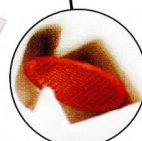
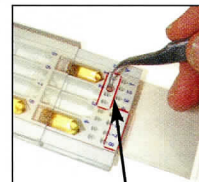
The MEM grid boxes incorporate a number of innovations for improved ease of use, more secure storage and integrated documentation.

161-96



161-32

Note: Grid placement detail in Prod. No. 161-32



Innovations integrated in the MEM grid boxes are:

- "Tree" shaped TEM grid storage cavity virtually eliminates the chances of damaging the TEM grids - The grid storage cavity and the tweezers cavity have a separation wall so that the tweezers will only be able to grip the edge of the grids.
- The additional slider with a window between cover and grid storage box exposes only 4 grids at the time and prevents grids from falling or "jumping" out of the storage box.
- Integrated grid storage record card inserted in a dedicated slot on the back of the MEM grid box.
- The storage box body is made of white plastic providing good contrast. The coverlid and the slider with window are both made from clear plastic providing clear visibility.

There are two versions of the MEM grid boxes:

161-96 - store up to 96 grids, size 81 x 54 x 10mm

161-32 - store up to 32 grids and up to 8 blocks, size 81 x 54 x 14mm

161-96 MEM Grid Storage Box for 96 gridseach

161-32 MEM Grid Storage Box for 32 grids / 8 blocks each

■ BEEM® Dial-A-Grid and Block Holder



134



135



136

Holds and stores up to 24 electron microscopy grids in lettered cavities. Grids are held vertically after being inserted through a hole in the rotating cover disc.

Stores up to 10 blocks, cut or uncut. Numbered compartments.

134 BEEM® Dial-A-Grid / Block Holder Moduleeach

135 BEEM® Dial-A-Grid Moduleeach

136 BEEM® Block Holdereach

SEM Specimen Mount Storage

■ PELCO® 18 SEM Pin Mount Storage Holder and Box



Versatile, cost effective SEM pin mount storage box and holder for pin mounts with a 3.2mm ($\frac{1}{8}$ ") pin. Numbered 1-18 with the spacing designed to accommodate all types of pin mounts with a diameter from 6.4 to 50mm. Can hold 18 of 12.7mm pin mounts, 8 of 25mm pin mounts, 2 of 32 or 38 or 50mm pin mounts with space left for the smaller pin mounts. Maximum specimen space (between mount surface and closed lid) is 16mm ($\frac{5}{8}$ "). Used for FEI/Philips, ZEISS/LEO/Leica, Cambridge CamScan, Tescan, Amray and ETEC SEMs.

16709 SEM Storage box and holder for up to 18 of 12.7mm pin mounts . . .each



■ Universal Specimen Holder with Tall Storage Box

Universal Specimen Holder 16166 with removable stand-off pin that keeps the holder in place if box is tipped or inverted. Storage Box 16708.



- 2-sided use for double versatility
- Accepts pin-type or cylinder mounts
- $\frac{1}{8}$ " / 3.2mm pin dia. - holds 12, either side (FEI/Philips, ZEISS/LEO/Leica, Cambridge, CamScan, Tescan, Amray and ETEC SEM's.)
- 9.5mm / $\frac{3}{8}$ " cylinder - holds 12 on one side (JEOL)
- 15mm diameter mounts - holds 12 on one side (JEOL, ISI/ABT/Topcon)

16160 Universal Specimen Holder and Tall Storage Box, . . .each

■ SEM Specimen Storage Boxes for Hitachi Mounts



A storage box accepting threaded Hitachi Mounts. Holds either 12 each of 15mm or 6 each of 25mm mounts (#16712). Also available in "Plastic Posts" support instead of screws.

#16712 holding 12 each 15mm mounts. Metal screws hold mounts (Hitachi).



#16718 utilizing plastic posts for holding mounts (Hitachi).



#16712 holding 6 each 25mm mounts. Metal screws hold mounts (Hitachi).

- 16712** 15/25mm Hitachi Mount Holder, Metal Screws and Boxeach
- 16718** 15/25mm Hitachi Mount Holder, Plastic Posts and Boxeach

■ Plastic Box, SEM Mount Storage for Short Specimens

Accepts the Universal SEM Mount Holder #16166.

Total inside height is 2.7cm/1.06".

Outside dimensions: 9.2 x 6.8 x 3cm H ($3\frac{5}{8}$ x $2\frac{11}{16}$ x $1\frac{3}{16}$ ")

16706 Plastic Box, Shorteach



■ Plastic Box, SEM Mount Storage for Tall Specimens

Accepts the Universal SEM Mount Holder #16166.

Total inside height 3.5cm/1.39".

Outside dimensions: 9.4 x 6.8 x 3.8cm H ($3\frac{11}{16}$ x $2\frac{11}{16}$ x $1\frac{1}{2}$ ")

16708 Plastic Box, Talleach



SEM Specimen Mount Storage *continued***■ Universal Specimen Mount Holder**

#16166, both sides shown

Fits boxes 16706 and 16708.

2-sided use for double versatility. Accepts pin-type or cylinder mounts. Comes with removable stand-off pin.

 $\frac{1}{8}$ " (3.2mm) pin dia. Pin Mounts - holds 12, either side $\frac{3}{8}$ " (9.5mm) dia. Cylinder Mounts - holds 12 on one side

15mm dia. Cylinder Mounts - holds 12 on one side

16166 Universal Specimen Holdereach**■ Plastic Box with SEM Pin Mount Specimen Holder**

The 16700 "Standard" plastic box with 16125 pin stub specimen holder. For 12.7mm / $\frac{1}{2}$ " head diameter SEM pin mounts with $\frac{1}{8}$ " / 3.2mm pin diameter. Used for FEI/Philips, ZEISS/LEO/Leica, Cambridge, CamScan, Tescan, Amray and Etec SEM's.

16120 SEM Storage box and holder
for up to 4 of 12.7mm pin mountseach

■ Plastic Box with JEOL 9.5mm SEM Cylinder Mount Specimen Holder

The 16700 "Standard" plastic box with 16135 specimen holder. For 9.5mm / $\frac{3}{8}$ " diameter JEOL cylinder mounts.

16130 Plastic Box, Standard, with Cylinder Mount
Specimen Holder, 9.5mm diametereach

■ Plastic Box with JEOL 12.5mm SEM Cylinder Mount Specimen Holder

The 16700 "Standard" plastic box with 16136 specimen holder. For 12.5mm diameter JEOL cylinder mounts.

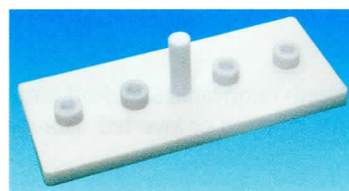
16140 Plastic Box, Standard, with Cylinder Mount
Specimen Holder, 12.5mm diametereach

■ Plastic Box, SEM Mount Storage

The "Standard" plastic box will hold 16125, 16135 and 16136 Specimen Holders. "Tall" boxes (No. 16704) also hold these specimen holders. If more height is needed see next page for "Tall" boxes. Inside height is 1.9cm / .76".

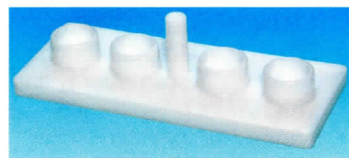
7.3 W x 3 D x 2.2cm H
(2- $\frac{15}{16}$ x 1- $\frac{1}{4}$ x $\frac{7}{8}$ ")

16700 Plastic Box, Standardeach

■ SEM Pin Mount Specimen Holder

This insert will hold the standard 12.7mm / $\frac{1}{2}$ " pin mounts with 3.2mm / $\frac{1}{8}$ " pin diameter and can be used with either 16700 "Standard" or 16704 "Tall" Plastic Boxes.

16125 SEM Pin mount Specimen Holdereach

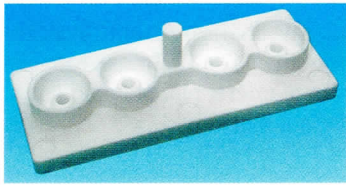
■ SEM 9.5mm Cylinder Mount Specimen Holder

This insert will hold the JEOL 9.5mm / $\frac{3}{8}$ " diameter cylinder mounts and can be used with either 16700 "Standard" or 16704 "Tall" Plastic Boxes.

16135 SEM 9.5mm Cylinder Mount
Specimen Holdereach

SEM Specimen Mount Storage *continued*

■ SEM 12.5mm Cylinder Mount Specimen Holder



This insert holds JEOL 12.5mm diameter cylinder mounts and fits into the 16700 "Standard" or 16704 "Tall" Plastic Boxes.

16136 SEM 12.5mm Cylinder Mount Specimen Holdereach

Note: When using 16125, 16135 and 16136 in the "Tall" box (No. 16704), you may wish to use the removable Retaining Pegs.

■ Plastic Box for Tall Specimens with SEM Pin Mount Specimen Holder



The 16704, tall plastic box with 16125 SEM pin mount specimen holder. "Slip over" retaining peg is included to keep holder in place if box is tipped or inverted.

For tall specimens, 1/8" / 3.2mm pins.

16713 Plastic Box, Tall with Pin Mount Specimen Holdereach

■ Plastic Box for Tall Specimens with JEOL 9.5mm SEM Cylinder Mount Specimen Holder



The 16704, tall plastic box with 16135 JEOL 9.5mm specimen holder. "Slip over" retaining peg is included to keep holder in place if box is tipped or inverted.

For tall specimens, 9.5mm/ 3/8" JEOL cylinder mounts.

16715 Plastic Box, Tall with Cylinder Mount Specimen Holder, 9.5mm dia.each

■ Plastic Box for Tall Specimens with JEOL 12.5mm SEM Cylinder Mount Specimen Holder



The 16704 tall plastic box with 16136 specimen holder. Slip over retaining peg is included to keep holder in place if box is tipped or inverted. For 12.5mm diameter JEOL cylinder mounts.

16705 Plastic Box, Tall with Cylinder Mount Specimen Holder, 12.5mm dia.each

■ Plastic Box, SEM Mount Storage for Tall Mounts



The tall plastic box will hold 16125, 16135 and 16136 Specimen Holders. Inside height of lid and base are both 16mm (.63"). Base is white with clear lid.

7.5 W x 3.2 D x 3.5cm H
(2-15/16 x 1-1/4 x 1-3/8" H)

16704 Plastic Box, Talleach

■ Retaining Pegs for Tall Box



16713-10



16705-10

Retaining pegs for use on specimen holders 16125, 16135 and 16136 when placed in the "Tall" Plastic Box.

16713-10 Retaining Pegs for 16125 and 16135 specimen holders, when using tall boxpkg/10

16705-10 Retaining Pegs for 16136 specimen holders, when using tall boxpkg/10

SEM Specimen Mount Storage *continued*

■ SEM Pin Mount Specimen Holder and Box



Specimen holder and box for storing up to 8 of 12.5mm diameter pin mounts (3.2mm / 1/8" pin diameter), used in FEI/Philips, ZEISS/LEO/Leica, Cambridge, CamScan, Tescan, Amray and ETEC SEM's.

16716 Plastic Box/Holder for 8 of 12.5mm dia. pin mountseach

■ 14 SEM Pin Mount Specimen Holder and Box



Storage Box and Holder for 14 of 12.7mm diameter or 8 of 25mm diameter pin mounts (3.2mm/1/8" pin diameter). Numbered 1 - 14. Used for FEI/Philips, ZEISS/LEO/Leica, Cambridge, CamScan, Tescan, Amray and ETEC SEM's.

16717 Plastic Box/Holder for 14 of 12.7mm dia. pin mountseach

■ Single Pin Mount Storage, Mailer



Tube for SEM Specimen Pin Mounts.

The pin mount, 1/8" / 3.2mm pin diameter, is protected and held securely in the base (cap) of the tube. Can be used for pin mounts up to 18mm diameter.

16630 Single Mount Storage Mailerpkg/10

■ SEM-STOR Paper Box Storage for Pin Mounts



inexpensive storage for scanning electron microscopy mounts

Fold-up insert which accepts 8 specimen mounts: 1/2" / 12.7mm head, 1/8" / 3.2mm diameter pin. Shipped flat. 7cm long x 3.8cm wide x 3.5cm high (2-3/4 x 1-1/2 x 1-3/8")

16612 SEM-STOR Paper Boxpkg/100

■ Wooden Storage Box



Wooden storage box for up to 128 of 12.7mm diameter pin mounts.

16714 Wooden Box for 125 of 12.7 diameter Pin Mountseach

■ Storage Cabinet for Pin-Type SEM Specimen Mounts



This sturdy metal cabinet stores 2240 pin type mounts (our 16111 and other pin-types we list) in 10 drawers. The rows are indexed for identification. The front door seals to minimize moisture and dust affecting the contents. Outside dimensions: 55 W x 42 D x 63cm H (22" W x 16.5" D x 24.8" H).

16123 Storage Cabinet for Pin Mount Specimens . . .each

■ Mini Desiccator



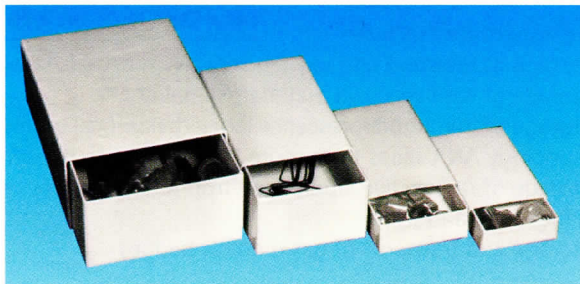
This small desiccator is 75mm in diameter and holds 12 pin-type specimen mounts under partial vacuum, shielded from moisture or dust. Its flat design permits easy stacking and is shatterproof. The Mini-Desiccator is ideal for transporting specimens.

16190 Mini Desiccatoreach

Storage Boxes, Cardboard and Styrene Plastic

■ White Cardboard Slide Boxes

store EM blocks, quality "pill" boxes



Easy to write upon pill boxes for identification and filing. The "shell" or outer sleeve is covered with glossy white paper. Both tray and shell are rigid and strong.

tray interior: 50 x 32 x 11mm (2 x 1-1/4 x 7/16")

box exterior: 52 x 35 x 13mm (2-1/16 x 1-3/8 x 1/2")

139-1 Slide Pill Box, X-smallpkg/144

tray interior: 64 x 38 x 15mm (2-1/2 x 1-1/2 x 19/32")

box exterior: 65 x 41 x 18mm (2-9/16 x 1-19/32 x 11/16")

139-2 Slide Pill Box, Smallpkg/144

tray interior: 73 x 48 x 29mm (2-7/8 x 1-7/8 x 1-1/8")

box exterior: 76 x 50 x 32mm (3 x 2 x 1-1/4")

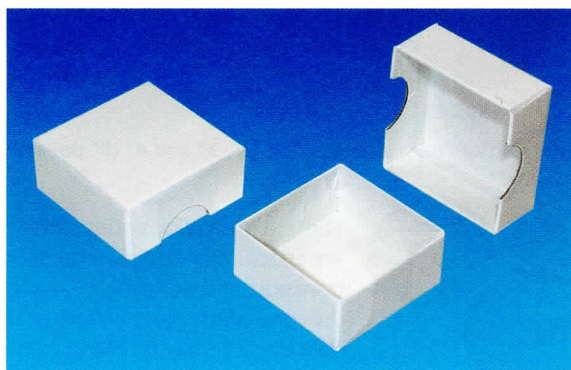
139-6 Slide Pill Box, Mediumpkg/72

tray interior: 88 x 60 x 35mm (3-1/2 x 2-3/8 x 1-3/8")

box exterior: 90 x 64 x 37mm (3-1/2 x 2-1/2 x 1-7/16")

139-8 Slide Pill Box, Largepkg/36

■ Thrifty Square Cardboard Boxes



A telescope-style box, square, made with white lined "board", having edges finished with white glossy paper.

Center portions of the top and bottom are not covered. Place your own identification in these spaces.

1-1/4 x 1-1/4 x 17/32" (inside) (3.2 x 3.2 x 1.3cm)

139-40 Thrifty Square Boxpkg/144

■ Crystal Clear Styrene Plastic Boxes, with Hinged Covers

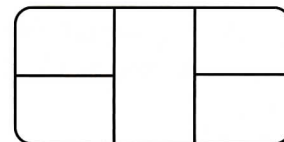
organize your EM and parts storage



1 compartment:

8-1/4 x 4-1/2 x 1-3/8"
(21 x 11.4 x 3.5cm)

139-206 1-Compartment Styrene Boxeach



5 compartments:

17.8 x 9.5 x 3.2cm
(7 x 3-3/4 x 1-1/4")

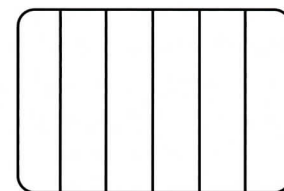
inside size:

4 compartments:

4.2 x 6.4 x 2.9cm
(1-5/8 x 2-1/2 x 1-1/8")

1 compartment: 4.2 x 8.3 x 2.9cm (1-5/8 x 3-1/4 x 1-1/8")

139-212 5-Compartment Styrene Boxeach



6 compartments:

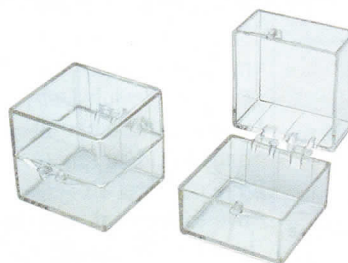
(will hold 35mm slides)

33.3 x 22.9 x 5.9cm
(13-1/8 x 9 x 2-5/16")

compartments:

5 x 21.1 x 5.2cm
(2 x 8-5/16 x 2-1/16")

139-806 6-Compartment Styrene Boxeach



1 compartment:

for specimen or small parts storage

Inside dimensions:

2.5 x 2.5 x 2.5cm (1 x 1 x 1")
Lid 1.27cm, base 1.27cm
(1/2"). Clear.

139-21 Square Plastic Boxpkg/25

STORAGE

Tamper Resistant Labels; Ziplock Storage Bags; Barrier Foil Ziplock Bags; Wafer Carrier Trays

■ Secure-Lock Tamper Resistant Labels



An inexpensive way to safeguard lab shipments, sealed documents or small containers. Once applied these economical, peel-and-stick labels cannot be removed in one piece! Instead, they are formulated to break apart when stressed, giving clear evidence that tampering has occurred.

Transparent labels display the words "TAMPER RESISTANT" in bold red ink. Ideal for use on boxes, bottles, shipping containers, parts envelopes, even file drawers. Comes in a handy dispenser box. Size 5/8" x 2-1/2" (16 x 63.5mm).

16250-1 Secure-Lock Tamper Resistant Labels, 5/8" x 2-1/2"; 16 x 63.5mmpkg/250



■ Clear Plastic Ziplock Storage Bags

4 mil thickness (0.1mm), plain

139-101 Plastic Ziplock Bag, 2-1/2" x 3"pkg/100
139-102 Plastic Ziplock Bag, 3 x 4"pkg/100
139-107 Plastic Ziplock Bag, 5 x 8";pkg/100

2 mil thickness (0.05mm), with write-on area

139-301 Write-On Bag, 2" x 3"pkg/100
139-302 Write-On Bag, 3" x 4"pkg/100
139-307 Write-On Bag, 5" x 8"pkg/100

■ Barrier Foil Ziplock Bag



Exterior	
	48 ga PET
	12# PE
	.000285" Aluminum Foil
Interior	1.5 mil LLDEP

Four layers of material on the Barrier Foil Ziplock Bags

Shown with our Specimen Storage box and Dricap® Capsule Dehydrators, these barrier bags are ideal for storage of materials sensitive to moisture and/or oxygen. The inside

continued on next column

dimensions measures L x H x W (where W is the pouch bottom width) with a zip lock and a tear notch above the zipper. The material is a aluminum foil covered with multi-layered polyethylene, providing a MVTR (moisture vapor transmission rate) that is 1,000 times better than a typical poly bag. They are heat sealable, and ziplock resealable. Compatible with vacuum sealers. Sizes to fit all of your needs. ⓘ

ⓘ = Tech Note on web page

Typical applications include:

- Storage of moisture and oxygen sensitive materials/samples
- Storage of light sensitive materials/samples
- Storage of immunofluorescence labeled, confocal or immunology ANA slides from room temperature to freezer
- Storage of radioactive labeled electrophoresis gels for both refrigerator and freezer
- Storage and transport of gas monitor badges

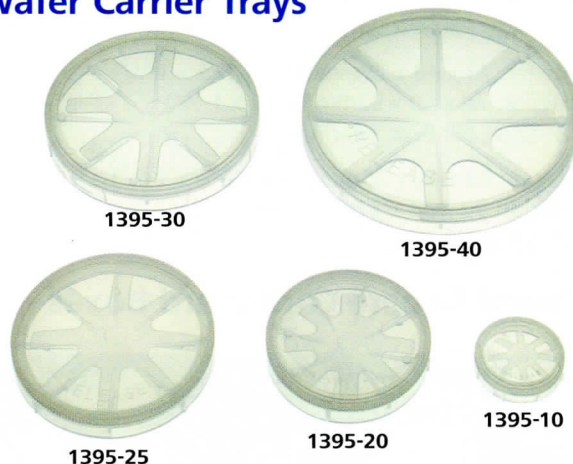
139-310 Barrier Foil Ziplock Bag, 6" x 5-1/2" ID . . .pkg/100

139-311 Barrier Foil Ziplock Bag, Small, 3-3/4" x 6" x 2-1/2" IDpkg/100

139-312 Barrier Foil Ziplock Bag, Medium, 6-1/4" x 7-3/4" x 2-1/2" IDpkg/100

139-313 Barrier Foil Ziplock Bag, Large, 7-1/2" x 8-3/4" x 3" IDpkg/100

■ Wafer Carrier Trays



Wafer Carrier Trays, size 1", 2", 2-1/2", 3" and 4" (6" not shown)



Components include spider ring (pressure retention, edges or center), lid and base.

These high quality wafer carrier trays are specifically designed for storage, transport and handling of semiconductor wafers, glass wafers or other delicate flat objects. Made from polypropylene material and available in sizes from 1" to 6" with maximum grip, minimum contact and minimum pressure. The trays have a conical base to support the wafers at the edges only. The wafers are held in place and secured by a spider spring and locking cap.

Round, Polypropylene Wafer Carriers 1" to 6"

1395-10 Wafer carrier tray for 1" / 25mm single waferpkg/10

continued on next page

■ Wafer Carrier Trays *continued*

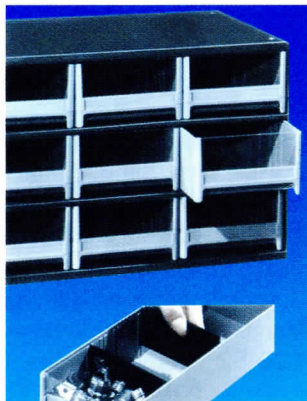
Round, Polypropylene Wafer Carriers 1" to 6" *continued*

- 1395-20** Wafer carrier tray
for 2" / 50mm single waferpkg/10
- 1395-25** Wafer carrier tray
for 2.5" / 63mm single waferpkg/10
- 1395-30** Wafer carrier tray
for 3" / 75mm single waferpkg/10
- 1395-40** Wafer carrier tray
for 4" / 100mm single waferpkg/10
- 1395-60** Wafer carrier tray
for 6" / 152mm single waferpkg/10

■ Modular Parts Storage Cabinets

Compact Modular Cabinets

- 8 model sizes
- Store small parts, electronic components, medical supplies, A-V material, hardware, tools and instruments.
- Save time by instantly locating parts and supplies.
- Save space by picking the right drawer for your requirements. Compact modular cabinets are 17" wide. (17-136 and 17-018 are both 18" wide and 17-138 is 20" wide.)
- Stack cabinets horizontally or vertically, wall mount, or place on carts or shelves.



Heavy-Duty Steel Frame*

Charcoal gray baked enamel finish, steel drawer supports, nesting "feet" for stability in stacking.

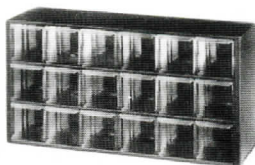
* except for No. 17-138, which is made of gray polystyrene.

Molded Styrene Drawers

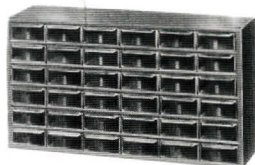
Gray heavy-duty with transparent windows - 5 sizes. One label furnished per drawer.

(Models 17-136, 17-018 and 17-138 have all-transparent drawers).

- Virtually unbreakable
- Transparent windows for quick visual inventory
- Lightweight
- Rust and corrosion-proof
- Retaining tab to hold drawers open



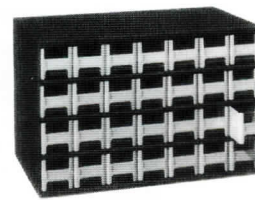
17-018



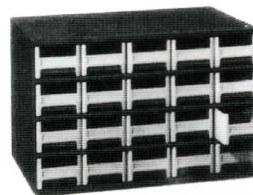
17-136



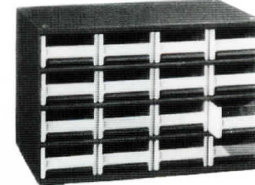
17-138



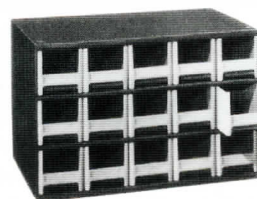
19-228



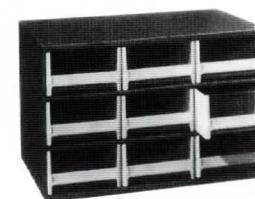
19-320



19-416



19-715



19-909

Cabinet Product No.		Modular Cabinet Dimension Specifications						
Transparent Drawers	Opaque/Transparent Drawers	Cabinet Size, Inches			Drawers per Cabinet	Drawer Dimensions Inside Inches		
		W	H	D		W	H	D
17-018	-	18	9	6	18	2-5/8	2-1/2	5-3/4
17-136	-	18-1/4	8-5/8	6-3/8	36	2-3/4	1-1/4	5-3/4
17-138	-	20	15-13/16	6-3/8	44	small: 2-1/8 Large: 4-3/8	1-1/2 2	5-1/4 5-1/4
-	19-228	17	11	11	28	2-3/16	2-1/16	10-9/16
-	19-320	17	11	11	20	3-3/16	2-1/8	10-9/16
-	19-416	17	11	11	16	4	2-1/8	10-9/16
-	19-715	17	11	11	15	3-3/16	3-1/16	10-9/16
-	19-909	17	11	11	9	5-3/16	3-1/16	10-9/16

17-018 Storage Cabinet, light duty, 18 drawerseach

17-136 Storage Cabinet, light duty, 36 drawerseach

17-138 Storage Cabinet, Polystyrene, 44 drawerseach

19-228 Modular Cabinet, 28 drawerseach

19-320 Modular Cabinet, 20 drawerseach

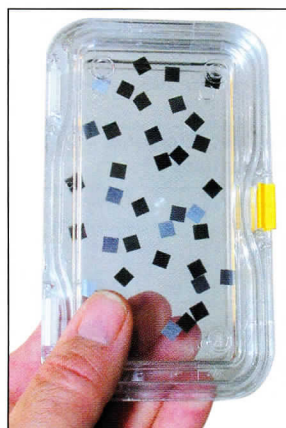
19-416 Modular Cabinet, 16 drawerseach

19-715 Modular Cabinet, 15 drawerseach

19-909 Modular Cabinet, 9 drawerseach

■ Plastic Membrane Boxes

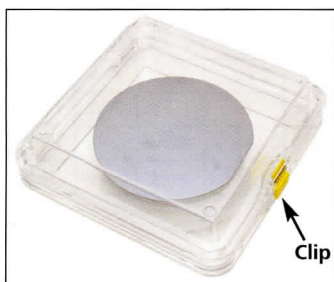
"Suspended in Air" store/ship/transfer delicate, sensitive articles between soft elastic membranes



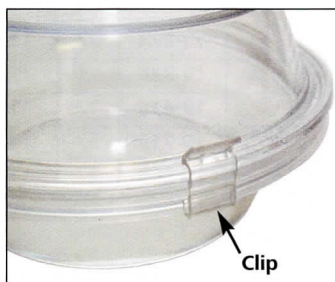
No. 139-59 shown

Plastic boxes with thin membranes top and bottom. The plastic membranes deform around the enclosed object and hold it securely. Small products or large may be held firmly within various box sizes: Semiconductor, machine parts, electron microscopy parts or materials, and many other applications.

Note: Membrane area listed is actual area. The item(s) held in the membrane area must be smaller than the membrane area, depending on the thickness of the item(s) held.



No. 139-58 shown



Product No. 139-51

Prod. No's 139-56 and 139-58 are hinged with a yellow clip (see above, left). **Prod. No 139-51 and 139-52** have two clear clips, 180° apart (see above, right). **Prod. No's 139-50, 139-52, 139-59 and 139-60** have a separable membrane lid that forms a snug fit when pushed onto the membrane base; no hinges, latches or clips are used.

Outside Dimensions: 38 x 38 x 16mm H (1-1/2" x 1-1/2" x 11/16" H)
Membrane Area: 31.8 x 31.8mm (1-1/4" x 1-1/4")

139-50 Membrane Box,
38mm Square x 16mm Hpkg/12

Outside Dimensions: 82mm dia. x 40mm H (3.22" dia. x 1.57" H)
Membrane Area: 69.9mm dia. (2.75" dia.)

139-51 Membrane Box, Round,
82mm dia. x 40mm Heach

Outside Dimensions: 82mm dia. x 17.5mm H (3.22" dia. x .69" H)
Membrane Area: 69.9mm dia. (2.75" dia.)

139-52 Membrane Box, Round,
82mm dia. x 17.5mm Heach

Outside Dimensions: 71 x 71 x 12mm H (2.8" x 2.8" x .47" H)
Membrane Area: 60 x 60mm (2.36" x 2.36")

139-59 Membrane Box, 71mm Square x 12mm H . . .each
Outside Dimensions: 39.6 x 79.4 x 19mm H

(1.56" x 3.125" x .75" H)

Membrane Area: 25.4 x 66.7mm (1" x 2-5/8")

139-60 Membrane Box, Rectangular,
39.6 x 79.4 x 19mm Heach

Outside Dimensions: 75 x 124 x 26.7mm H (3" x 4.87" x 1" H)

Membrane Area: 60.5 x 114.3mm (2.38" x 4.5")

139-56 Membrane Box, Hinged,
Rectangular, 75 x 124 x 26.7mm Heach

Outside Dimensions: 149 x 149 x 51.8mm H

(5.87" x 5.87" x 2.04" H)

Membrane Area: 133.4 x 138.2mm (5.25" x 5.44")

139-58 Membrane Box, Hinged,
149mm Square x 51.8mm Heach

Replacement Yellow Clips and Clear Clips for Hinged Boxes

139-57 Yellow Clips for Hinged Boxespkg/10

139-54 Clear Clips for Hinged Boxespkg/10

Outside Dimensions: 50 x 160 x 30 mm H

(1.97" x 6.3" x 1.18" H)

Membrane Area: 30 x 140mm (1.18" x 5.51")

139-61 Membrane Box, Hinged,
50mm x 160mm x 30mm Heach

■ Gel-Pak® Substrate Carriers and Packaging

innovative solutions for storing and transporting delicate devices



The Gel-Box, Gel-Tray and Gel-Slide product series are designed to protect and store sensitive devices and specimens during transport, processing, inspection and assembly. Devices can be loaded and removed easily using tweezers or by hand from the unique highly cross-linked Gel polymer. The degree of holding force of the Gel is dependent on the tackiness of the Gel material, which is called the "Retention Level". The Gel material is strong in both shear and vertical directions, but weak in the peel direction, which allows parts to be easily unloaded from the Gel surface. The Gel is an extremely durable and versatile material that maintains its properties between -40°C to 220°C. Minimum shelf life is 2 years.

Applications for Semiconductor devices, Sensors, Micromechanical Devices, Optoelectronics, Hard Drive heads, Bio-medical devices, Specimen storage. Retention levels available are X0, X4 and X8. The optimum tack level for individual parts depends on material, size, weight and surface roughness. Unfortunately there is no exact formula to calculate the retention level but general guidelines are:

- **Low retention level - X0** - for highly polished surfaces
 - **Medium retention level - X4** - for pre-polished and/or etched surfaces
 - **High retention level - X8** - for rough surfaces like ceramics
- Gel-Pak has devised an effective box system which offers a versatile selection of box materials optimized for the diverse range of applications:
- **C** - Conductive black polycarbonate (optimum protection against static discharges)
 - **AS** - Clear Anti-Static plastic (optimum visibility)
 - **CAS** - Clear Anti-Static top with conductive plastic bottom (optimum for ESD safe protection and visibility)
 - **T** - Clear Styrene Box for non ESD sensitive parts (most economical solution)

Gel-Box (AD Series)



The original and widely used Gel-Box is a plastic hinged box with the Gel material coated in the bottom. Standard box sizes range from 1" x 1" to 3-1/2" x 4-1/2".

Retention level available is X0, X4 and X8. The boxes are available in a variety of materials.

Gel-Tray (BD Series)



The Gel-Trays are configured as a 2" x 2" carrier tray stored in a protective hinged box which can be easily removed for access or transfer. Maximum temperature for the trays is in the range of 70-80°C. The trays are available in either conductive black polycarbonate (C) or clear styrene (T). Retention levels available are X0, X4 and X8. The boxes are available in a variety of materials.

Gel Slide (CD Series)



The Gel-Slides are 2" x 2" glass slide carriers stored in a protective plastic hinged box. The advantage is the glass slide can be used up to temperatures of 220°C. Retention level available is X4. Boxes are available in clear plastic (T) and anti-static clear plastic (AS).

Clear Plastic Hinged Boxes with Gel Coating in Bottom (AD Series)

- AD-11T-00-X0** Gel-Box, 25.4 x 25.4 x 6.4mm (1"x1"x1/4"), Clear Plastic hinged box, Gel X0 . . .pkg/50
- AD-11T-00-X4** Gel-Box, 25.4 x 25.4 x 6.4mm (1"x1"x1/4"), Clear Plastic hinged box, Gel X4 . . .pkg/50
- AD-11T-00-X8** Gel-Box, 25.4 x 25.4 x 6.4mm (1"x1"x1/4"), Clear Plastic hinged box, Gel X8 . . .pkg/50
- AD-22T-00-X0** Gel-Box, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Clear Plastic hinged box, Gel X0 . . .pkg/50

continued on next page

■ Gel-Pak® Substrate Carriers and Packaging *continued*

Clear Plastic Hinged Boxes with Gel Coating in Bottom (AD Series) *continued*

- AD-22T-00-X4** Gel-Box, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Clear Plastic hinged box, Gel X4 . . .pkg/50
- AD-22T-00-X8** Gel-Box, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Clear Plastic hinged box, Gel X8 . . .pkg/50
- AD-23T-00-X4** Gel-Box, 50.8 x 76.2 x 9.5mm (2"x2"x1/4"), Clear plastic hinged box, Gel X4 . . .pkg/50
- AD-1135T-00-X4** Gel-Box, 89 x 114 x 12.7mm (3-1/2 "x4-1/2"x1/2"), Clear plastic hinged box, Gel X4pkg/50

Black Conductive Plastic Hinged Boxes with Gel Coating in Bottom (AD Series)

- AD-23C-00-X4** Gel-Box, 50.8 x 76.2 x 9.5mm (2"x3"x3/8"), Black Conductive plastic hinged box, Gel X4pkg/50

Black Plastic, Conductive Hinged Boxes (AD Series)

- AD-22C-00-X0** Gel-Box, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Black Conductive hinged box, Gel X0pkg/50
- AD-22C-00-X4** Gel-Box, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Black Conductive hinged box, Gel X4pkg/50
- AD-22C-00-X8** Gel-Box, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Black Conductive hinged box, Gel X8pkg/50

Black Conductive Plastic Base / Anti-Static Plastic top, Hinged Boxes (AD Series)

- AD-22CAS-00-X0** Gel-Box, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Black Conductive base/anti-static top, hinged box, Gel X0 . .pkg/50
- AD-22CAS-00-X4** Gel-Box, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Black Conductive base/anti-static top, hinged box, Gel X4 . .pkg/50
- AD-22CAS-00-X8** Gel-Box, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Black Conductive base/anti-static top, hinged box, Gel X8 . .pkg/50

Anti-Static, Clear Plastic, Hinged Boxes (AD Series)

- AD-22AS-00-X0** Gel-Box, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Anti-static, Clear plastic hinged box, Gel X0pkg/50
- AD-22AS-00-X4** Gel-Box, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Anti-static, Clear plastic hinged box, Gel X4pkg/50
- AD-22AS-00-X8** Gel-Box, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Anti-static, Clear plastic hinged box, Gel X8pkg/50

Gel-Trays (BD Series)

- BD-22TT-02-X0** Gel-Tray, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Clear plastic hinged box, clear plastic tray, Gel X0pkg/50
- BD-22TT-02-X4** Gel-Tray, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Clear plastic hinged box, clear plastic tray, Gel X4pkg/50
- BD-22TT-02-X8** Gel-Tray, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Clear plastic hinged box, clear plastic tray, Gel X8pkg/50
- BD-22CC-02-X0** Gel-Tray, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Black conductive hinged box, black conductive tray, Gel X0pkg/50
- BD-22CC-02-X4** Gel-Tray, 50.8x50.8x6.4mm (2"x2"x1/4"), Black conductive hinged box, black conductive tray, Gel X4 . .pkg/50
- BD-22CC-02-X8** Gel-Tray, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Black conductive hinged box, black conductive tray, Gel X8pkg/50
- BD-22CAS-02-X0** Gel-Tray, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Clear anti-static hinged box, black conductive tray, Gel X0pkg/50
- BD-22CAS-02-X4** Gel-Tray, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Clear anti-static hinged box, black conductive tray, Gel X4pkg/50
- BD-22CAS-02-X8** Gel-Tray, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Clear anti-static hinged box, black conductive tray, Gel X8pkg/50

Gel-Slides (CD Series)

- CD-22T-02-X0** Gel-Slide, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Clear plastic hinged box, Gel X0pkg/50
- CD-22T-02-X4** Gel-Slide, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Clear plastic hinged box, Gel X4pkg/50
- CD-22T-02-X8** Gel-Slide, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Clear plastic hinged box, Gel X8pkg/50
- CD-22AS-02-X0** Gel-Slide, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Anti-static clear hinged box, Gel X0pkg/50
- CD-22AS-02-X4** Gel-Slide, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Anti-static clear hinged box, Gel X4pkg/50
- CD-22AS-02-X8** Gel-Slide, 50.8 x 50.8 x 6.4mm (2"x2"x1/4"), Anti-static clear hinged box, Gel X8pkg/50