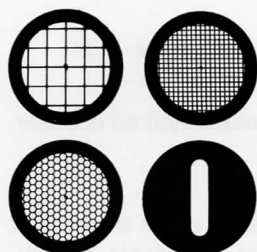
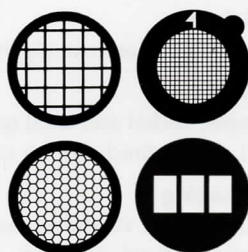


## TEM Grids Overview



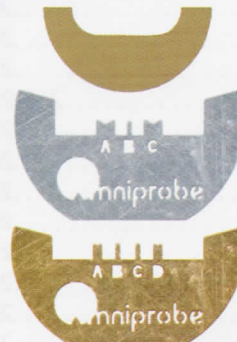
### PELCO® Grids

Comprehensive selection of easy handling, wide rim, sturdy grids. Mesh, Honeycomb, Slot and Hole  
**Page 203-207**



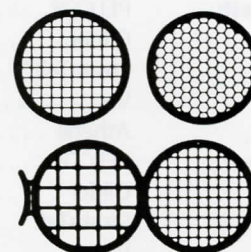
### Gilder Grids

Large selection of well defined thin bar grids up to 2000 Mesh. Mesh, Honeycomb, Slot and Hole  
**Page 208-213**



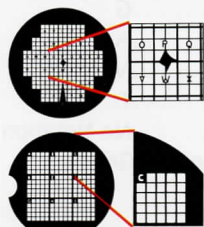
### FIB Grids

**Page 170**



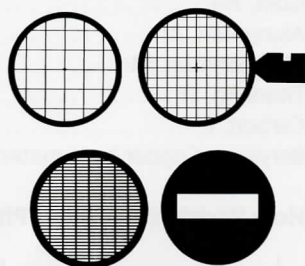
### StrataTek™ Grids

Affordable, sturdy, medium mesh grids. Mesh, Honeycomb, Slot and Hole  
**Page 214-215**



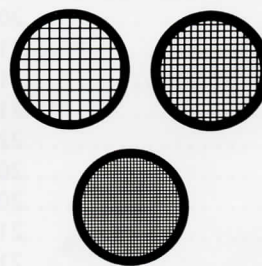
### Reference / Finder Grids

Wide selection of reference, locator and micron index grids.  
**Page 215-216**



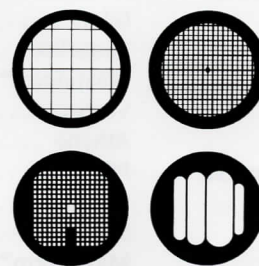
### Veco Grids

Selection of rigid grids. Mesh, Honeycomb and Slot  
**Page 218-222**



### Maxtaform Grids

Selection of Rh coated grids.  
**Page 217**



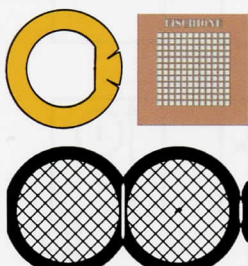
### Athene Grids

Selection of unique grids. Mesh, Honeycomb and Slot  
**Page 223-224**



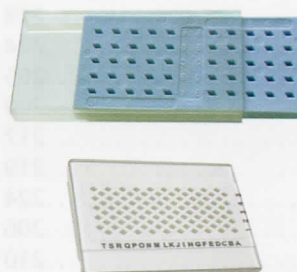
### SynapTek™ Grids

Thicker, notch type, slotted grids. SynapTek™ GridStick™ for staining.  
**Page 225-226**



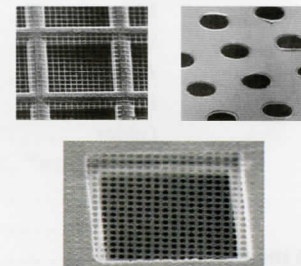
### Specialty Grids

Pyrolytic Carbon, Titanium Folding, Tomography and Chien Grids.  
**Page 226-227**



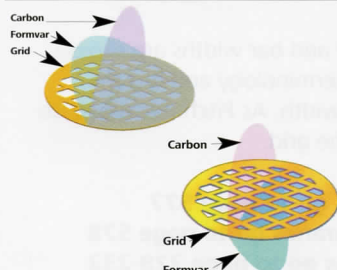
### Grid Boxes

**Page 559-560**



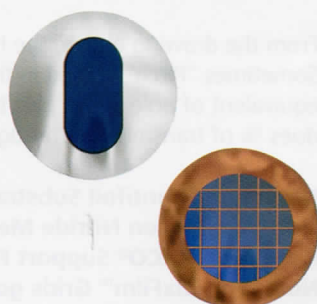
### Quantifoil Substrates

**Page 577**



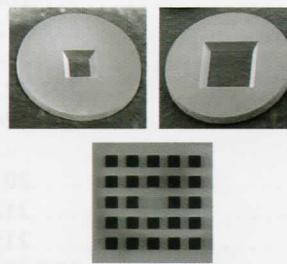
### Support Film Grids

Formvar Substrates, Carbon Support Films, NetMesh Grids, Lacey Support Films.  
**Page 229-232**



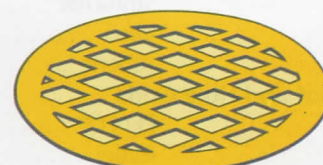
### LUXFilm™ TEM Supports

**Page 233**



### Silicon Nitride / Silicon Dioxide Support Films

**Page 578-581**



### Substratek™ TEM Substrate

**Page 234**

## Grid Index

<b>50 mesh</b>	PELCO®	203
	Gilder	208
	StrataTek™	214
	Veco	218-219
<b>75 mesh</b>	Athene	223
	PELCO®	203
	Gilder	208
	StrataTek™	214
	Veco	219
<b>100 mesh</b>	PELCO®	204
	Gilder	208
	StrataTek™	214
	Maxtaform™	217
	Veco	218
<b>150 mesh</b>	PELCO®	204
	Gilder	208
	StrataTek™	214
	Maxtaform™	217
	Veco	218
	Athene	223
<b>200 mesh</b>	PELCO®	205
	Gilder	209
	StrataTek™	214
	Maxtaform™	217
	Veco	218
	Athene	223
<b>230 mesh</b>	StrataTek™	214
<b>300 mesh</b>	PELCO®	205
	Gilder	209
	Maxtaform™	217
	Veco	219
	Athene	224
<b>400 mesh</b>	PELCO®	205
	Gilder	209
	Maxtaform™	217
	Veco	219
	Athene	224
<b>500 mesh</b>	PELCO®	206
<b>600 mesh</b>	Gilder	210
<b>1000 mesh</b>	Gilder	210
<b>1500 mesh</b>	Gilder	210
<b>2000 mesh</b>	Gilder	210
<b>Honeycomb or Hexagonal Grids</b>	PELCO®	206
	Gilder	211-212
	StrataTek™	214
	Veco	221-222
	Athene	224
<b>Slot and Hole Grids</b>	PELCO®	207
	Gilder	212
	StrataTek™	215
	Veco	220-221
	Athene	224
<b>Reference Finder Grids</b>	All Makes	215-216

## General Grid Information

## Thickness

PELCO® grids are usually thicker than similar mesh grids.

## Finish

Copper, Nickel and Gold grids have a matt finish on one side and a shiny finish on the other side.

## Packaging

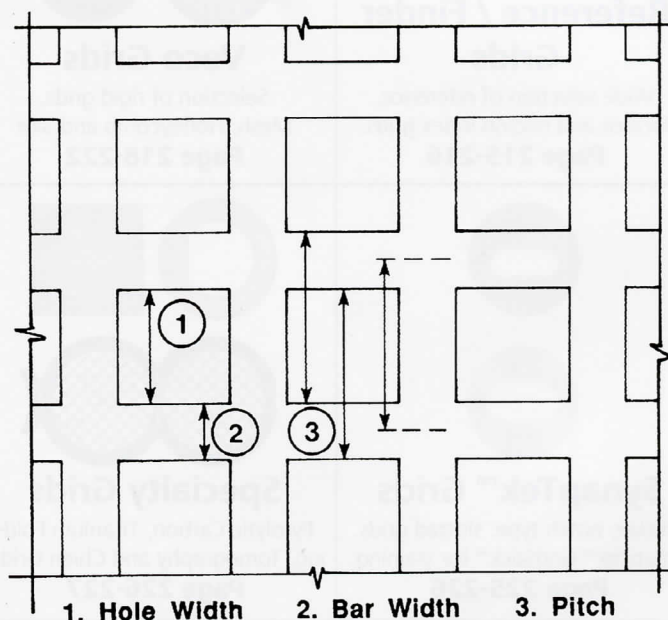
100 grids per vial/tube, except for specials which are listed accordingly. Gold, Titanium, Molybdenum and Aluminum grids are packaged in 25's. All PELCO® Athene and Gilder grids are packaged in black antistatic vials.

## Base Materials

## Code

Copper, Cu	.C
Nickel, Ni	.N
Gold, Au	.G
Aluminum, Al	.A
Molybdenum, Mo	.M
Titanium, Ti	.T
Carbon, C	.No Notation
Beryllium-Copper base material for SynapTek™ Grids	

## Hole Width, Bar Width, Pitch



From the drawing above, the hole and bar widths are shown. Sometimes "Pitch" is used in this terminology and it is the equivalent of hole width plus bar width. As Pitch decreases, so does % of transmission through the grid.

**Note: For Quantifoil Substrates go to page 577**

**Note: For Silicon Nitride Membranes go to page 578**

**Note: For PELCO® Support Films go to page 228-232**

**Note: For LuxFilm™ Grids go to page 233**

**Note: For Metallic Coated Grids go to page 234**



## PELCO® Grids, packed in anti-static vials

The PELCO® grids are usually somewhat thicker than similar TEM grids, but still maintain a good definition of the grid bars. The wide rim on the PELCO® grids provides additional stiffness and minimizes interfering with the sample when picking up and handling the grids with tweezers. The popular PELCO® grids were introduced over 40 years ago (1968) and have found a large international user base in all disciplines of TEM. The grids have a shiny (smooth) finish on one side and matt or dull finish on the other side. Comprehensive selection of different grid styles is offered with a standard diameter of 3.05mm. Available materials are Cu, Ni, Au, Al, Ti and Mo (for high temperature applications). *Special grid coatings are a feature.*

Packaging: Standard Cu grids are 100 grids/vial, except specials which are listed accordingly. Gold, Titanium, Molybdenum and Aluminum are packaged 25 grids/vial. Special Grid Storage Boxes are available, even for the PELCO® Tabbed Grids with deeper wells.

PELCO® Grids				
Square Mesh	Pitch $\mu\text{m}$	Hole $\mu\text{m}$	Bar $\mu\text{m}$	% Transmission
50	508	425	83	70
75	339	284	55	70
100	254	204	50	65
150	169	125	44	60
200	127	90	37	50
300	85	54	31	40
400	64	38	26	35
500	51	28	23	30

### ■ PELCO® 50 Mesh Grids



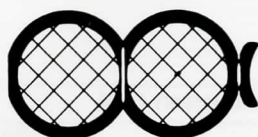
50 Mesh: Pitch 508 $\mu\text{m}$ ; Hole Width 425 $\mu\text{m}$ ; Bar Width 83 $\mu\text{m}$ ; Transmission 70%		
<b>1GC50</b>	PELCO® Center-Marked Grids, 50 mesh, Copper	100/vial
<b>1GN50</b>	PELCO® Center-Marked Grids, 50 mesh, Nickel	100/vial
<b>1GG50</b>	PELCO® Center-Marked Grids, 50 mesh, Gold	25/vial



Tabbed 50 Mesh: Pitch 508 $\mu\text{m}$ ; Hole Width 425 $\mu\text{m}$ ; Bar Width 83 $\mu\text{m}$ ; Transmission 70%		
<b>3HGC50</b>	PELCO® Tabbed Center-Marked Grids, 50 mesh, Copper	100/vial



Slotted 50 x 200 Mesh		
<b>1GC50/200</b>	PELCO® Slotted 50 x 200 Mesh, Center-Marked Grids, Copper	100/vial

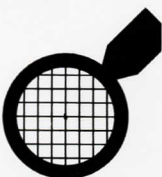


Folding 50 Mesh		
<b>4GC50/50</b>	PELCO® Folding 50/50 Mesh, Center-Marked Grids, Copper	100/vial

### ■ PELCO® 75 Mesh Grids

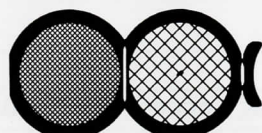
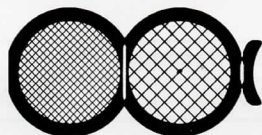
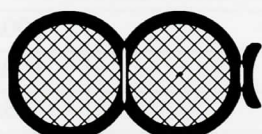
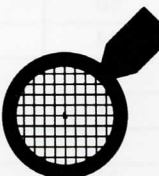


75 Mesh: Pitch 339 $\mu\text{m}$ ; Hole Width 284 $\mu\text{m}$ ; Bar Width 55 $\mu\text{m}$ ; Transmission 70%		
<b>1GC75</b>	PELCO® Center-Marked Grids, 75 mesh, Copper	100/vial
<b>1GN75</b>	PELCO® Center-Marked Grids, 75 mesh, Nickel	100/vial
<b>1GG75</b>	PELCO® Center-Marked Grids, 75 mesh, Gold	25/vial



Tabbed 75 Mesh: Pitch 339 $\mu\text{m}$ ; Hole Width 284 $\mu\text{m}$ ; Bar Width 55 $\mu\text{m}$ ; Transmission 70%		
<b>3HGC75</b>	PELCO® Tabbed, Center-Marked Grids, 75 mesh, Copper	100/vial
<b>3HGN75</b>	PELCO® Tabbed, Center-Marked Grids, 75 mesh, Nickel	100/vial
<b>3HGT75</b>	PELCO® Tabbed, Center-Marked Grids, 75 mesh, Titanium	25/vial

## ■ PELCO® 100 Mesh Grids



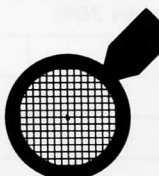
100 Mesh: Pitch 254µm; Hole Width 204µm; Bar Width 50µm; Transmission 65%		
<b>1GC100</b>	PELCO® Center-Marked Grids, 100 mesh, Copper	100/vial
<b>1GN100</b>	PELCO® Center-Marked Grids, 100 mesh, Nickel	100/vial
<b>1GG100</b>	PELCO® Center-Marked Grids, 100 mesh, Gold	25/vial
<b>1GA100</b>	PELCO® Center-Marked Grids, 100 mesh, Aluminum	25/vial

Tabbed 100 Mesh: Pitch 254µm; Hole Width 204µm; Bar Width 50µm; Transmission 65%		
<b>3HGC100</b>	PELCO® Tabbed Center-Marked Grids, 100 mesh, Copper	100/vial
<b>3HGN100</b>	PELCO® Tabbed Center-Marked Grids, 100 mesh, Nickel	100/vial

Slotted 100 x 400 Mesh		
<b>1GC100/400</b>	PELCO® Slotted, 100 x 400 Mesh, Center Marked Grids, Copper	100/vial
<b>1GN100/400</b>	PELCO® Slotted, 100 x 400 Mesh, Center Marked Grids, Nickel	100/vial

Folding 100 Mesh		
<b>4GC100/100</b>	PELCO® Folding, 100/100 Mesh, Center Marked One Side Grids, Copper	100/vial
<b>4GM100/100</b>	PELCO® Folding, 100/100 Mesh, Center Marked One Side Grids, Molybdenum	25/vial
<b>4GN100/100</b>	PELCO® Folding, 100/100 Mesh, Center Marked One Side Grids, Nickel	100/vial
<b>4GM100/200</b>	PELCO® Folding, 100/200 Mesh, Center Marked One Side Grids, Molybdenum	25/vial
<b>4GC100/300</b>	PELCO® Folding, 100/300 Mesh, Center Marked One Side Grids, Copper	100/vial

## ■ PELCO® 150 Mesh Grids

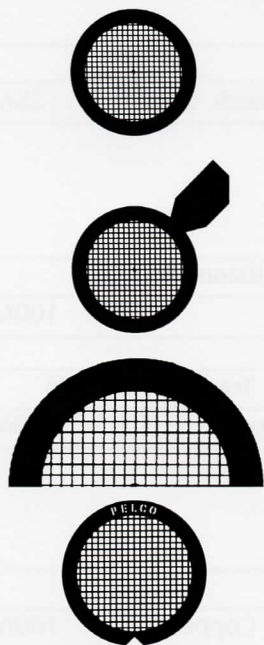


150 Mesh: Pitch 169µm; Hole Width 125µm; Bar Width 44µm; Transmission 60%		
<b>1GC150</b>	PELCO® Center-Marked Grids, 150 mesh, Copper	100/vial
<b>1GN150</b>	PELCO® Center-Marked Grids, 150 mesh, Nickel	100/vial
<b>1GG150</b>	PELCO® Center-Marked Grids, 150 mesh, Gold	25/vial

Tabbed 150 Mesh: Pitch 169µm; Hole Width 125µm; Bar Width 44µm; Transmission 60%		
<b>3HGC150</b>	PELCO® Tabbed Center-Marked Grids, 150 mesh, Copper	100/vial
<b>3HGN150</b>	PELCO® Tabbed Center-Marked Grids, 150 mesh, Nickel	100/vial



## ■ PELCO® 200 Mesh Grids



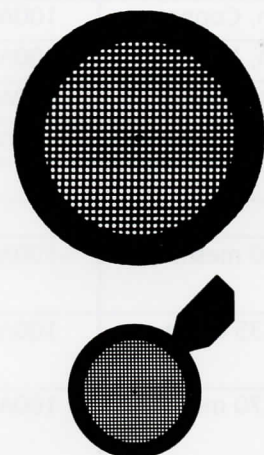
200 Mesh: Pitch 127µm; Hole Width 90µm; Bar Width 37µm; Transmission 50%		
<b>1GC200</b>	PELCO® Center-Marked Grids, 200 mesh, Copper	100/vial
<b>1GN200</b>	PELCO® Center-Marked Grids, 200 mesh, Nickel	100/vial
<b>1GG200</b>	PELCO® Center-Marked Grids, 200 mesh, Gold	25/vial
<b>1GT200</b>	PELCO® Center-Marked Grids, 200 mesh, Titanium	25/vial
<b>1GA200</b>	PELCO® Center-Marked Grids, 200 mesh, Aluminum	25/vial

Tabbed 200 Mesh: Pitch 127µm; Hole Width 90µm; Bar Width 37µm; Transmission 50%		
<b>3HGC200</b>	PELCO® Tabbed Center-Marked Grids, 200 mesh, Copper	100/vial
<b>3HGN200</b>	PELCO® Tabbed Center-Marked Grids, 200 mesh, Nickel	100/vial

Extra Open Area 200 Mesh		
<b>4406</b>	PELCO® Extra Open Area Grids, 200 mesh, 3.0mm O.D., Copper	25/vial

Notch Rim 200 Mesh		
<b>1GC200NV</b>	PELCO® Notchrim Grids, 200 mesh, 3.0mm O.D., Copper	100/vial

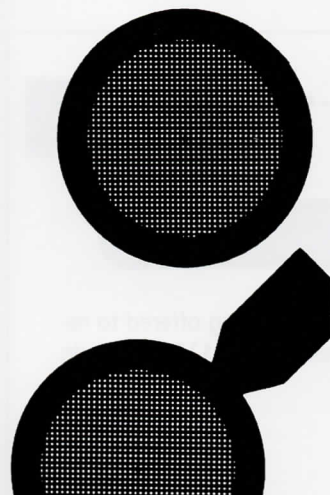
## ■ PELCO® 300 Mesh Grids



300 Mesh: Pitch 85µm; Hole Width 54µm; Bar Width 31µm; Transmission 40%		
<b>1GC300</b>	PELCO® Center-Marked Grids, 300 mesh, Copper	100/vial
<b>1GN300</b>	PELCO® Center-Marked Grids, 300 mesh, Nickel	100/vial
<b>1GG300</b>	PELCO® Center-Marked Grids, 300 mesh, Gold	25/vial
<b>1GT300</b>	PELCO® Center-Marked Grids, 300 mesh, Titanium	25/vial
<b>1GM300</b>	PELCO® Center-Marked Grids, 300 mesh, Molybdenum	25/vial

Tabbed 300 Mesh: Pitch 85µm; Hole Width 54µm; Bar Width 31µm; Transmission 40%		
<b>3HGC300</b>	PELCO® Tabbed Center-Marked Grids, 300 mesh, Copper	100/vial
<b>3HGN300</b>	PELCO® Tabbed Center-Marked Grids, 300 mesh, Nickel	100/vial
<b>3HGT300</b>	PELCO® Tabbed Center-Marked Grids, 300 mesh, Titanium	25/vial

## ■ PELCO® 400 Mesh Grids



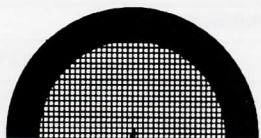
400 Mesh: Pitch 64µm; Hole Width 38µm; Bar Width 26µm; Transmission 35%		
<b>1GC400</b>	PELCO® Center-Marked Grids, 400 mesh, Copper	100/vial
<b>1GN400</b>	PELCO® Center-Marked Grids, 400 mesh, Nickel	100/vial
<b>1GG400</b>	PELCO® Center-Marked Grids, 400 mesh, Gold	25/vial
<b>1GM400</b>	PELCO® Center-Marked Grids, 400 mesh, Molybdenum	25/vial

Tabbed 400 Mesh: Pitch 64µm; Hole Width 38µm; Bar Width 26µm; Transmission 35%		
<b>3HGC400</b>	PELCO® Tabbed Center-Marked Grids, 300 mesh, Copper	100/vial

# GRIDS

PELCO®; PELCO® Honeycomb; Tab-Nipper

## ■ PELCO® 400 Mesh Grids *Continued*



### Extra Open Area 400 Mesh

<b>4408</b>	PELCO® Extra Open Area, Center-Marked Grids, 400 mesh, Copper	25/vial
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## ■ PELCO® 500 Mesh Grids



### 500 Mesh: Pitch 51µm; Hole Width 28µm; Bar Width 23µm; Transmission 30%

<b>1GC500</b>	PELCO® Center-Marked Grids, 500 mesh, Copper	100/vial
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### Tabbed 500 Mesh: Pitch 51µm; Hole Width 28µm; Bar Width 23µm; Transmission 30%

<b>3HGC500</b>	PELCO® Tabbed Center-Marked Grids, 500 mesh, Copper	100/vial
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## ■ PELCO® Honeycomb Grids



90 Mesh



135 Mesh



180 Mesh



270 Mesh



360 Mesh

### Honeycomb Grids 90, 135, 180, 270, 360 Mesh

<b>8GC90</b>	PELCO® Honeycomb Center-Marked Grids, 90 mesh, Copper	100/vial
<b>8GN90</b>	PELCO® Honeycomb Center-Marked Grids, 90 mesh, Nickel	100/vial
<b>8GC135</b>	PELCO® Honeycomb Center-Marked Grids, 135 mesh, Copper	100/vial
<b>8GC180</b>	PELCO® Honeycomb Center-Marked Grids, 180 mesh, Copper	100/vial
<b>8GN180</b>	PELCO® Honeycomb Center-Marked Grids, 180 mesh, Nickel	100/vial
<b>8GC270</b>	PELCO® Honeycomb Center-Marked Grids, 270 mesh, Copper	100/vial
<b>8GC360</b>	PELCO® Honeycomb Center-Marked Grids, 360 mesh, Copper	100/vial

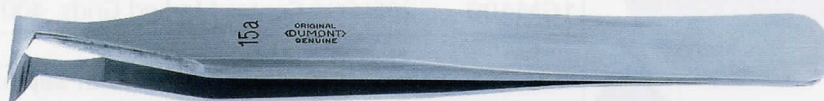
### Tabbed Honeycomb Grids 90, 135, 270 Mesh

<b>8HGC90</b>	PELCO® Tabbed Honeycomb Center-Marked Grids, 90 mesh, Copper	100/vial
<b>8HGC135</b>	PELCO® Tabbed Honeycomb Center-Marked Grids, 135 mesh, Copper	100/vial
<b>8HGC270</b>	PELCO® Tabbed Honeycomb Center-Marked Grids, 270 mesh, Copper	100/vial



270 Mesh Tabbed

## ■ Precision Carbon Steel Wire-Cutting Tweezer (Tab-Nipper)



Cuts tabs from handle grids; very fine cutting in tight places. Gold plating offered to reduce contamination and oxidation. High Precision Carbon Steel. Length: 115mm; blade width x thickness is 10.5 x 4.25mm; Style 15a.

<b>511</b>	Tab-Nipper	each
<b>511-A</b>	Tab-Nipper, Gold Plated	each



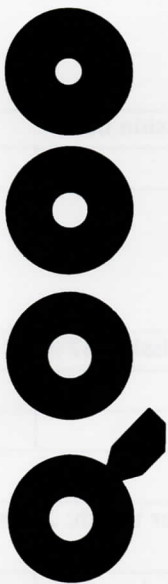
## ■ PELCO® Slot Grids



Slot Grids, extra thick (50µm)		
Slot 1x2mm (after F. Sjöstrand)		
1GC12H	PELCO® Slot Grids, 1 x 2mm, Copper	100/vial
1GN12H	PELCO® Slot Grids, 1 x 2mm, Nickel	100/vial
1GM12H	PELCO® Slot Grids, 1 x 2mm, Molybdenum	25/vial
1GG12H	PELCO® Slot Grids, 1 x 2mm, Gold	25/vial
Slot 0.4x2mm (after R.F. Bills)		
1GC42S	PELCO® Slot Grids, 0.4 x 2mm, Copper	100/vial
1GN42S	PELCO® Slot Grids, 0.4 x 2mm, Nickel	100/vial
1GG42S	PELCO® Slot Grids, 0.4 x 2mm, Gold	25/vial

Tabbed Slot Grids, 1x2mm, extra thick (50µm)		
3HGC12H	Cohen-PELCO® Tabbed Slot Grids, 1 x 2mm, Copper	100/vial
3HGN12H	Cohen-PELCO® Tabbed Slot Grids, 1 x 2mm, Nickel	100/vial

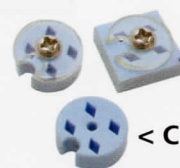
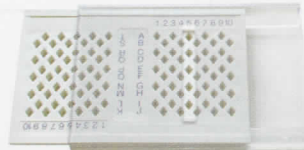
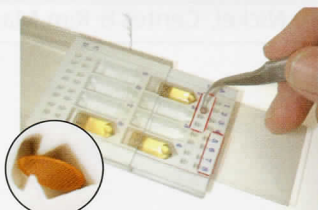
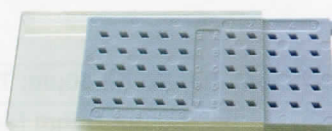
## ■ PELCO® Hole Grids



Hole Grids, extra thick (50µm)		
1GC6H	PELCO® Hole Grids, 0.6mm, Copper	100/vial
1GN6H	PELCO® Hole Grids, 0.6mm, Nickel	100/vial
1GC8H	PELCO® Hole Grids, 0.8mm, Copper	100/vial
1GC10H	PELCO® Hole Grids, 1.0mm, Copper	100/vial
1GM10H	PELCO® Hole Grids, 1.0mm, Molybdenum	25/vial
1GG10H	PELCO® Hole Grids, 1.0mm, Gold	25/vial
1GT10H	PELCO® Hole Grids, 1.0mm, Titanium	25/vial

Tabbed Hole Grid, 1.0mm, extra thick (50µm)		
3HGC10H	PELCO® Tabbed Hole Grids, 1.0mm, Copper	100/vial

## TEM Grid Storage Boxes



Go to  
Grid Storage,  
pp 559 to 560

< Cryo Grid Box 126

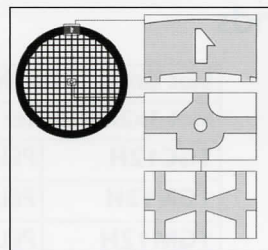
## Gilder Grids

The Gilder grids are available in 50 to an unrivalled 2000 mesh. The Gilder grids feature well defined grid bars, shiny (smooth) and matt side difference and are packaged in custom anti-static vials. They are made with precision electroplating technologies. An additional feature of the Gilder grids are the rim and center marks to aid in the orientation on the grid and identification of each side. Most Gilder grids have a rim mark and many grids also have center marks. Wide selection of grid styles to support virtually every application with standard diameter of 3.05mm. Available materials are Cu, Ni, Au, Mo and Cu/Pd.

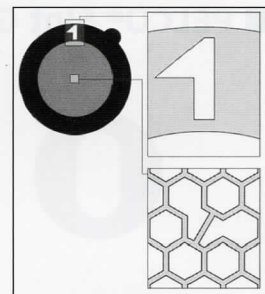
Packaging: Standard Cu or Ni 100 grids/vial, except special configurations which are listed accordingly with packaging of 25 or 50 grids/vial.

Thickness of Nickel grids is 35 microns  $\pm$  5 microns.

Molybdenum is used principally in applications where its hardness, expansion coefficient, high temperature and corrosive resistance characteristics are considered important. Mo typical purity 99.9%, melting point 2617° C (4742.6°F).



Standard Mesh Grids with marks: An asymmetrical mark in the rim, shown top. Center mark for quadrant location or older style, "reverse arrow", bottom.



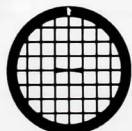
Fine Mesh Grids with marks: An asymmetrical mark in the rim, shown top. Center mark divides grid into 6 areas, bottom.

### ■ Gilder 50 Mesh Grids



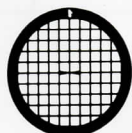
50 Mesh: Pitch 500µm; Hole Width 420µm; Bar Width 80µm; Transmission 70%		
<b>G50</b>	Gilder Grids, 50 mesh, Copper	100/vial
<b>G50N</b>	Gilder Grids, 50 mesh, Nickel	100/vial

### ■ Gilder 75 Mesh Grids



75 Mesh: Pitch 340µm; Hole Width 285µm; Bar Width 55µm; Transmission 66%		
<b>G75</b>	Gilder Grids, 75 mesh, Copper, Center & Rim Mark	100/vial

### ■ Gilder 100 Mesh Grids

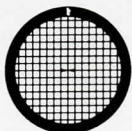


100 Mesh: Pitch 250µm; Hole Width 205µm; Bar Width 45µm; Transmission 67%		
<b>G100</b>	Gilder Grids, 100 mesh, Copper, Center & Rim Mark	100/vial
<b>G100N</b>	Gilder Grids, 75 mesh, Nickel	100/vial



100 Mesh Molybdenum grid overall thickness: 25µm, Pitch: 250µm, Bar Width: 25µm, Hole Width: 205µm		
<b>G100M</b>	Gilder Grids, 100 mesh, Molybdenum, Center & Rim Mark	25/vial

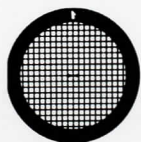
### ■ Gilder 150 Mesh Grids



150 Mesh: Pitch 165µm; Hole Width 125µm; Bar Width 40µm; Transmission 45%		
<b>G150</b>	Gilder Grids, 150 mesh, Copper, Center & Rim Mark	100/vial
<b>G150N</b>	Gilder Grids, 150 mesh, Nickel, Center & Rim Mark	100/vial



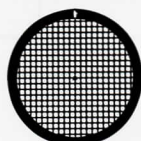
## ■ Gilder 200 Mesh Grids



200 Mesh: Pitch 125µm; Hole Width 90µm; Bar Width 35µm; Transmission 52%		
<b>G200</b>	Gilder Grids, 200 mesh, Copper, Center & Rim Mark	100/vial
<b>G200N</b>	Gilder Grids, 200 mesh, Nickel, Center & Rim Mark	100/vial



200 Mesh Fine Bar: Pitch 125µm; Hole Width 113µm; Bar Width 12µm; Transmission 82%		
<b>G200HS</b>	Gilder Fine Bar Grids, 200 mesh, Copper, Rim Mark	100/vial
<b>G200HSN</b>	Gilder Fine Bar Grids, 200 mesh, Nickel, Rim Mark	100/vial
<b>G200HSG</b>	Gilder Fine Bar Grids, 200 mesh, Gold, Rim Mark	50/vial



200 Mesh Molybdenum grid overall thickness: 25µm, Pitch: 125µm, Bar Width: 35µm, Hole Width: 90µm		
<b>G200M</b>	Gilder Grids, 200 mesh, Molybdenum, Center & Rim Mark	25/vial

## ■ Gilder 300 Mesh Grids

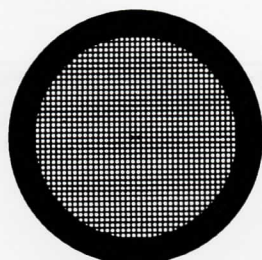


300 Mesh: Pitch 83µm; Hole Width 58µm; Bar Width 25µm; Transmission 49%		
<b>G300</b>	Gilder Grids, 300 mesh, Copper, Center & Rim Mark	100/vial
<b>G300N</b>	Gilder Grids, 300 mesh, Nickel, Center & Rim Mark	100/vial



300 Mesh Fine Bar: Pitch 83µm; Hole Width 73µm; Bar Width 10µm; Transmission 77%		
<b>G300HS</b>	Gilder Fine Bar Grids, 300 mesh, Copper, Rim Mark	100/vial
<b>G300HSN</b>	Gilder Fine Bar Grids, 300 mesh, Nickel, Rim Mark	100/vial

## ■ Gilder 400 Mesh Grids

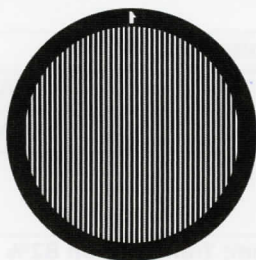


400 Mesh: Pitch 62µm; Hole Width 37µm; Bar Width 25µm; Transmission 37%		
<b>G400</b>	Gilder Grids, 400 mesh, Copper, Center & Rim Mark	100/vial
<b>G400G</b>	Gilder Grids, 400 mesh, Gold, Center & Rim Mark	50/vial
<b>G400N</b>	Gilder Grids, 400 mesh, Nickel, Center & Rim Mark	100/vial



400 Mesh Fine Bar: Pitch 62µm; Hole Width 54µm; Bar Width 8µm; Transmission 76%		
<b>G400HS</b>	Gilder Fine Bar Grids, 400 mesh, Copper, Rim Mark	100/vial

## ■ Gilder 400 Lines Grids

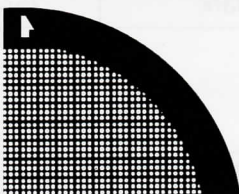


<b>400 Line Parallel Bar: Pitch 62μm; Space Width 40μm; Bar Width 22μm; Transmission 65%</b>		
<b>G400P</b>	Gilder Parallel Bar Grids, 400 lines, Copper, Rim Mark	50/vial

## ■ Gilder 600 Mesh Grids



<b>600 Mesh Fine Bar: Pitch 42μm; Hole Width 37μm; Bar Width 5μm; Transmission 78%</b>		
<b>G600HS</b>	Gilder Fine Bar Grids, 600 mesh, Copper, Rim Mark	100/vial



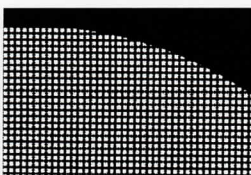
<b>600 Mesh Thick-Thin: Hole Size 30μm; Bar Width 10/16μm; Transmission 65%</b>		
<b>G600TT</b>	Gilder Thick-Thin Bar Grids, 600 mesh, Copper, Rim Mark	100/vial

## ■ Gilder 1000 Mesh Grids



<b>1000 Mesh Fine Bar: Pitch 25μm; Hole Width 19μm; Bar Width 6μm; Transmission 57%</b>		
<b>G1000HS</b>	Gilder Fine Bar Grids, 1000 mesh, Copper, Rim Mark	25/vial
<b>G1000HSG</b>	Gilder Fine Bar Grids, 1000 mesh, Gold, Rim Mark	25/vial

## ■ Gilder 1500 Mesh Grids



<b>1500 Mesh Fine Bar: Pitch 16.5μm; Hole Width 11.5μm; Bar Width 5μm; Transmission 49%</b>		
<b>G1500HS</b>	Gilder Fine Bar Grids, 1500 mesh, Copper, Center Mark	15/vial

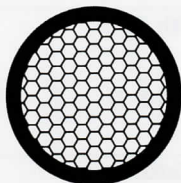
## ■ Gilder 2000 Mesh Grids



<b>2000 Mesh Fine Bar: Pitch 12.5μm; Hole Width 7.5μm; Bar Width 5μm; Transmission 36%</b>		
<b>G2000HS</b>	Gilder Fine Bar Grids, 2000 mesh, Copper, Rim Mark	15/vial

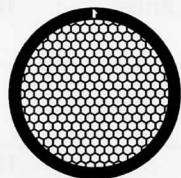


## ■ Gilder 100 Mesh Hexagonal, Standard Grids



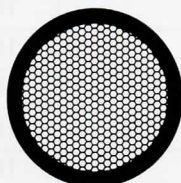
<b>100 Hexagonal Mesh: Pitch 250µm; Hole Width 220µm; Bar Width 30µm; Transmission 77%</b>		
<b>G100HEX</b>	Gilder Hexagonal Grids, 100 mesh, Copper	100/vial
<b>G100HEX-N</b>	Gilder Hexagonal Grids, 100 mesh, Nickel	100/vial

## ■ Gilder 150 Mesh Hexagonal, Standard Grids



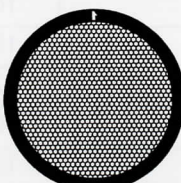
<b>150 Hexagonal Mesh: Pitch 165µm; Hole Width 105µm; Bar Width 35µm; Transmission 62%</b>		
<b>G150HEX</b>	Gilder Hexagonal Grids, 150 mesh, Copper, Rim Mark	100/vial

## ■ Gilder 200 Mesh Hexagonal, Standard Grids



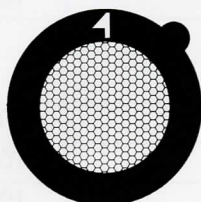
<b>200 Hexagonal Mesh: Pitch 125µm; Hole Width 90µm; Bar Width 20µm; Transmission 70%</b>		
<b>G200HEX</b>	Gilder Hexagonal Grids, 200 mesh, Copper	100/vial
<b>G200HEX-N</b>	Gilder Hexagonal Grids, 200 mesh, Nickel	100/vial

## ■ Gilder 300 Mesh Hexagonal, Standard Grids



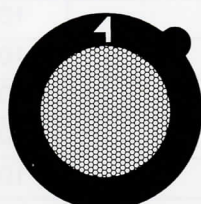
<b>300 Hexagonal Mesh: Pitch 83µm; Hole Width 58µm; Bar Width 25µm; Transmission 49%</b>		
<b>G300HEX</b>	Gilder Hexagonal Grids, 300 mesh, Copper, Rim Mark	100/vial

## ■ Gilder 200 Mesh Hexagonal, Fine Bar Grids



<b>200 Hexagonal Mesh, Fine Bar: Pitch 125µm; Hole Width 113µm; Bar Width 12µm; Transmission 82%</b>		
<b>G200HH</b>	Gilder Fine Bar Hexagonal Grids, 200 mesh, Copper, Rim Mark	100/vial
<b>G200HHN</b>	Gilder Fine Bar Hexagonal Grids, 200 mesh, Nickel, Rim Mark	100/vial

## ■ Gilder 300 Mesh Hexagonal, Fine Bar Grids



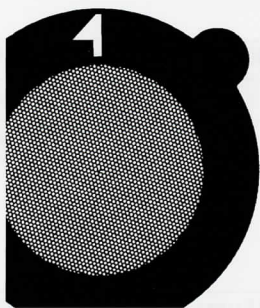
<b>300 Hexagonal Mesh, Fine Bar: Pitch 83µm; Hole Width 73µm; Bar Width 10µm; Transmission 77%</b>		
<b>G300HH</b>	Gilder Fine Bar Hexagonal Grids, 300 mesh, Copper, Rim Mark	100/vial
<b>G300HHN</b>	Gilder Fine Bar Hexagonal Grids, 300 mesh, Nickel, Rim Mark	100/vial

## ■ Gilder 400 Mesh Hexagonal, Fine Bar Grids



<b>400 Hexagonal Mesh, Fine Bar: Pitch 57µm; Hole Width 49µm; Bar Width 8µm; Transmission 74%</b>		
<b>G400HH</b>	Gilder Fine Bar Hexagonal Grids, 400 mesh, Copper, Center & Rim Mark	100/vial
<b>G400HHN</b>	Gilder Fine Bar Hexagonal Grids, 400 mesh, Nickel, Center & Rim Mark	100/vial

## ■ Gilder 600 Mesh Hexagonal, Fine Bar and Finest Bar Grids



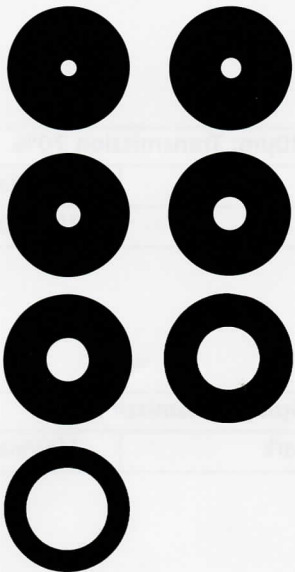
**600 Hexagonal Mesh, Fine Bar: Pitch 37μm; Hole Width 29μm; Bar Width 8μm; Transmission 61%**

<b>G600HH</b>	Gilder Fine Bar Hexagonal Grids, 600 mesh, Copper, Center & Rim Mark	100/vial
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**600 Hexagonal Mesh, Finest Bar: Pitch 42μm; Hole Width 37μm; Bar Width 5μm; Transmission 78%**

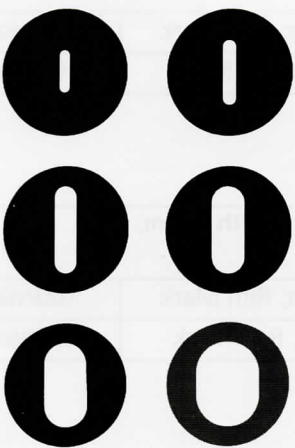
<b>G600HHS</b>	Gilder Finest Bar Hexagonal Grids, 600 mesh, Copper, Center Mark	100/vial
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## ■ Gilder Aperture Grids



<b>GA400</b>	Gilder Aperture Grids, 0.4mm hole, Copper	100/vial
<b>GN400</b>	Gilder Aperture Grids, 0.4mm hole, Nickel	100/vial
<b>GA500</b>	Gilder Aperture Grids, 0.5mm hole, Copper	100/vial
<b>GN500</b>	Gilder Aperture Grids, 0.5mm hole, Nickel	100/vial
<b>GA600</b>	Gilder Aperture Grids, 0.6mm hole, Copper	100/vial
<b>GN600</b>	Gilder Aperture Grids, 0.6mm hole, Nickel	100/vial
<b>GA800</b>	Gilder Aperture Grids, 0.8mm hole, Copper	100/vial
<b>GN800</b>	Gilder Aperture Grids, 0.8mm hole, Nickel	100/vial
<b>GA1000</b>	Gilder Aperture Grids, 1mm hole, Copper	100/vial
<b>GN1000</b>	Gilder Aperture Grids, 1mm hole, Nickel	100/vial
<b>GA1000M</b>	Gilder Aperture Grids, 1mm hole, Molybdenum	25/vial
<b>GA1500</b>	Gilder Aperture Grids, 1.5mm hole, Copper	100/vial
<b>GN1500</b>	Gilder Aperture Grids, 1.5mm hole, Nickel	100/vial
<b>GA2000</b>	Gilder Aperture Grids, 2.0mm hole, Copper	100/vial
<b>GN2000</b>	Gilder Aperture Grids, 2.0mm hole, Nickel	100/vial

## ■ Gilder Slot Grids



<b>G1X0.2CU</b>	Gilder Slot Grids, 1 x 0.2mm, Copper	100/vial
<b>G1X0.2N</b>	Gilder Slot Grids, 1 x 0.2mm, Nickel	100/vial
<b>G1.5X0.3CU</b>	Gilder Slot Grids, 1.5 x 0.3mm, Copper	100/vial
<b>G1.5X0.3N</b>	Gilder Slot Grids, 1.5 x 0.3mm, Nickel	100/vial
<b>G2X0.5CU</b>	Gilder Slot Grids, 2 x 0.5mm, Copper	100/vial
<b>G2X0.5N</b>	Gilder Slot Grids, 2 x 0.5mm, Nickel	100/vial
<b>G2X0.75CU</b>	Gilder Slot Grids, 2 x 0.75mm, Copper	100/vial
<b>G2X0.75N</b>	Gilder Slot Grids, 2 x 0.75mm, Nickel	100/vial
<b>G1X2CU</b>	Gilder Slot Grids, 2 x 1mm, Copper	100/vial
<b>G1X2N</b>	Gilder Slot Grids, 2 x 1mm, Nickel	100/vial
<b>G1X2CU/PD</b>	Gilder Slot Grids, 2 x 1mm, Copper/Palladium	100/vial
<b>GS1X2M</b>	Gilder Slot Grids, 2 x 1mm, Molybdenum	25/vial
<b>G2X1.5CU</b>	Gilder Slot Grids, 2 x 1.5mm, Copper	100/vial
<b>G2X1.5N</b>	Gilder Slot Grids, 2 x 1.5mm, Nickel	100/vial



## Gilder Triple Slot Grid



Three .54mm x .95mm slots in a 3.05mm copper grid. Extra bars provide better support over a large area. If a supporting film is ruptured in one area it may not effect the other 2 areas. This is an advantage compared to one-slot grids.

1GC3X1	Gilder Triple Slot Grids, Copper	100/vial
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## Gilder Grid Size Specifications

Square Mesh	Pitch $\mu\text{m}$	Hole Width $\mu\text{m}$	Bar Width $\mu\text{m}$	% Transmission	Mark	
					Center	Rim
G50	500	420	80	70	-	-
G75	340	285	55	66	•	•
G100	250	205	45	67	•	•
G100HEX	250	220	30	77	-	-
G150	165	125	40	45	•	•
G150HEX	165	130	35	62	-	•
G200	125	90	35	52	•	•
G200HEX	125	105	20	70	-	-
G200HH	125	113	12	82	-	•
G200HS	125	113	12	82	-	•
G300	83	58	25	49	•	•
G300HS	83	73	10	77	-	•
G300HEX	83	58	25	49	-	•
G300HH	83	73	10	77	-	•
G400	62	37	25	37	•	•
G400HS	62	54	8	76	-	•
G400HEX	62	37	25	36	-	•
G400HH	57	49	8	74	•	•
G400P	62	40	22	65	-	•
G600TT	-	30	10/16	-	•	-
G600HH	37	29	8	61	•	•
G600HHS	42	37	5	78	-	•
G600HSS	42	37	5	78	-	•
G1000HS	25	19	6	57	-	•
G1500HS	16.5	11.5	5	49	-	•
G2000HS	12.5	7.5	5	36	-	•

## The Three Most Popular Biology Tweezers for TEM Grids



Prod #	Description	Style	Length	Metal	Points Width x Thickness	Unit
503	DUMONT Biology	3	120mm	SS	0.08 x 0.04mm	each
503-NM	DUMONT Biology	3	120mm	NM-SS	0.08 x 0.04mm	each



505	DUMONT Biology	5	110mm	SS polished	0.06 x 0.02mm	each
505-NM	DUMONT Biology	5	110mm	NM-SS polished	0.06 x 0.02mm	each



510	PELCO® Biology by DUMONT	EMX	105mm	SS	0.08 x 0.04mm	each
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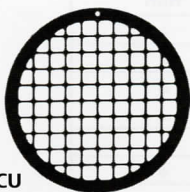
Note: For the complete listing of all Tweezers go to pages 628-660.

## StrataTek™ TEM Grids

The StrataTek™ TEM grids for Transmission Electron Microscopy have a thickness of 25um and are manufactured using a micron-precision etching process of thin foils. This method produces sturdy and rigid TEM grids. Both sides have the same surface characterization. StrataTek™ grids have a slightly higher density than grids made by electroplating. Corners where bars meet tend to be rounded.

Available in coarser mesh sizes only, with configurations in square and hexagonal mesh, slot, hole and folding grids. Grids have standard diameter of 3.05mm.

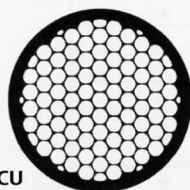
### ■ StrataTek™ Square Mesh Grids



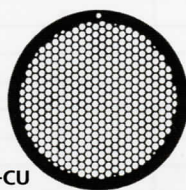
12414-CU  
100 Mesh

<b>12410-CU</b>	StrataTek™ Square Mesh Grids, 50 mesh, Copper	100/vial
<b>12412-CU</b>	StrataTek™ Square Mesh Grids, 75 mesh, Copper	100/vial
<b>12414-CU</b>	StrataTek™ Square Mesh Grids, 100 mesh, Copper	100/vial
<b>12416-CU</b>	StrataTek™ Square Mesh Grids, 150 mesh, Copper	100/vial

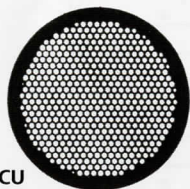
### ■ StrataTek™ Hexagonal Grids



12433-CU  
100 Mesh



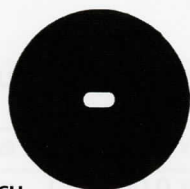
12435-CU  
200 Mesh



12436-CU  
230 Mesh

<b>12431-CU</b>	StrataTek™ Hexagonal Grids, 50 mesh, Copper	100/vial
<b>12432-CU</b>	StrataTek™ Hexagonal Grids, 75 mesh, Copper	100/vial
<b>12433-CU</b>	StrataTek™ Hexagonal Grids, 100 mesh, Copper	100/vial
<b>12434-CU</b>	StrataTek™ Hexagonal Grids, 150 mesh, Copper	100/vial
<b>12435-CU</b>	StrataTek™ Hexagonal Grids, 200 mesh, Copper	100/vial
<b>12436-CU</b>	StrataTek™ Hexagonal Grids, 230 mesh, Copper	100/vial

### ■ StrataTek™ Slotted Grids



12468-CU  
0.5 x 0.2mm

<b>12461-CU</b>	StrataTek™ Slotted Grids, 2 x 1.5mm, Copper	100/vial
<b>12463-CU</b>	StrataTek™ Slotted Grids, 2 x 0.75mm, Copper	100/vial
<b>12465-CU</b>	StrataTek™ Slotted Grids, 1.5 x 0.3mm, Copper	100/vial
<b>12467-CU</b>	StrataTek™ Slotted Grids, 1 x 0.2mm, Copper	100/vial
<b>12468-CU</b>	StrataTek™ Slotted Grids, 0.5 x 0.2mm, Copper	100/vial

### ■ StrataTek™ Rectangular Mesh Grids with Middle Bar



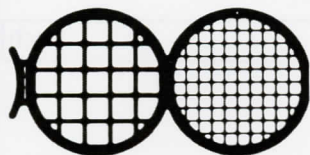
12476-CU  
75 Mesh

<b>12475-CU</b>	StrataTek™ Rectangular Mesh Grids with Middle Bar, 50 mesh, Copper	100/vial
<b>12476-CU</b>	StrataTek™ Rectangular Mesh Grids with Middle Bar, 75 mesh, Copper	100/vial
<b>12477-CU</b>	StrataTek™ Rectangular Mesh Grids with Middle Bar, 100 mesh, Copper	100/vial



## StrataTek™ TEM Grids *continued*

### ■ StrataTek™ Double Folding Mesh Grids



12481-CU 50/100 Mesh

<b>12480-CU</b>	StrataTek™ Double Folding Grids, 50/50 mesh, Copper	100/vial
<b>12481-CU</b>	StrataTek™ Double Folding Grids, 50/100 mesh, Copper	100/vial
<b>12483-CU</b>	StrataTek™ Double Folding Grids, 100/200 mesh, Copper	100/vial

### ■ StrataTek™ Double Folding Hole Grids



<b>12490-CU</b>	StrataTek™ Double Folding Hole Grids, 1/1mm, Copper	100/vial
<b>12491-CU</b>	StrataTek™ Double Folding Hole Grids, 1.5/1mm, Copper	100/vial
<b>12492-CU</b>	StrataTek™ Double Folding Hole Grids, 1.5/1.5mm, Copper	100/vial
<b>12493-CU</b>	StrataTek™ Double Folding Hole Grids, 1.4/1.8mm, Copper	100/vial
<b>12494-CU</b>	StrataTek™ Double Folding Hole Grids, 2.0/1.8mm, Copper	100/vial

## StrataTek™ Grid Size Specifications

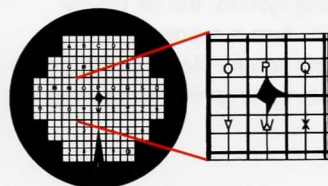
Square Mesh	Pitch $\mu\text{m}$	Hole Width $\mu\text{m}$	Bar Width $\mu\text{m}$	% Transmission
50	530	450	80	72
75	350	300	50	73.5
100	260	230	30	78
150	180	140	40	60
<b>Hex Mesh</b>				
50	530	450	80	72
75	359	300	50	73.5
100	260	230	30	78
150	180	140	40	60
200	130	100	30	59
230	110	85	25	60

## Reference Finder Grids

Relocating a particular grid square or area by a logical alphabetical or numeric (or both) arrangement can reduce the time spent for specimen analysis. Exact grid square definition may even be a requirement in forensic and asbestos analysis. Certainly there can be greatly increased confidence by the electron microscopist that a precise grid square can be found where a feature is of interest while moving about the other parts of the specimen on the grid.

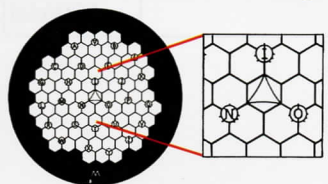
Your need or wish can most likely be filled with one or more reference grid styles listed below.

### ■ Maxtaform™ Style H2 Grids



<b>79750</b>	Maxtaform™ Reference Finder Grids, Style H2, 200 mesh, Copper	100/vial
<b>79751</b>	Maxtaform™ Reference Finder Grids, Style H2, 200 mesh, Nickel	100/vial

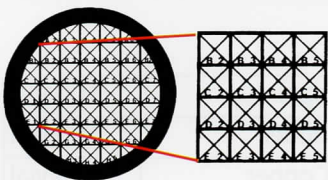
### ■ Maxtaform™ Style H6 Grids



<b>79755</b>	Maxtaform™ Reference Finder Grids, Style H6, 235 pitch*, Cop-	100/vial
<b>79756</b>	Maxtaform™ Reference Finder Grids, Style H6, 235 pitch*, Nickel	100/vial

\*pitch is the complete width of one space plus one bar in  $\mu\text{m}$

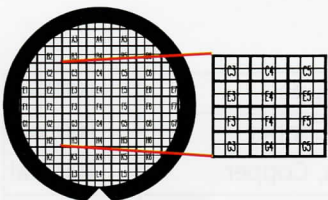
### ■ Micron Index I Grids



squares divided into triangles, alphanumeric

<b>79021C</b>	Micron Index 1 Grids, 100 mesh, Copper	each
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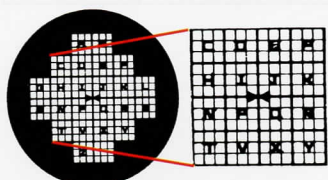
### ■ Micron, Asbestos Reference Index Grids



thick-thin bar, alphanumeric, notched

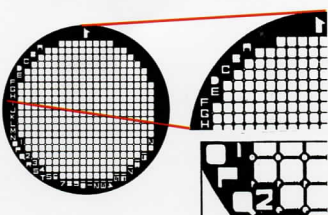
<b>79015</b>	Micron, Asbestos Reference Grids, 200 mesh, Copper	each
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### ■ Gilder Reference Locator Grids



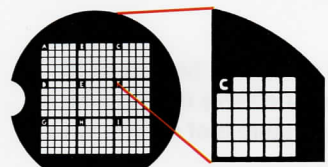
2 Styles

<b>G200F2</b>	Gilder Reference Locator Grids, 24 blocks of 9 cells ID by letter in center, Copper	25/vial
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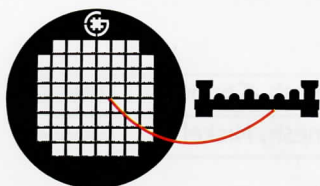
<b>G200HF3</b>	Gilder Reference Locator Grids, 332 cells unique by alphanumeric code, Copper	25/vial
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### ■ PELCO® Pinpointer Grids



<b>7GC200</b>	PELCO® Pinpointer Grids, 3.0mm O.D., 200 mesh, Copper	100/vial
<b>7HGN100</b>	PELCO® Pinpointer Grids, 3.0mm O.D., 200 mesh, Nickel	100/vial

### ■ Gilder Finder Grids



Each of the 60 square grids is identified using a base two binary numbering system. the six binary number symbols appear on the bottom grid bars along the horizontal axis. Zero is represented by a short pillar and one by a longer pillar. The enlarged section shown is of grid square No. 9 - a long pillar at the extreme right represents decimal 1 and a long pillar fourth from the right represents decimal 8.

Pitch= 250μ; Bar width vertical axis= 40μ;

Hole width, vertical axis= 210μ.

Gilder Finder Grids, 3.05mm O.D., 100 mesh

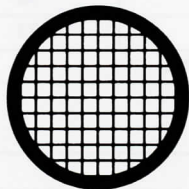
<b>G100F1</b>	Gilder Finder Grids, 100 mesh, Copper	100/vial
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## Maxtaform™ Grids

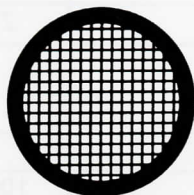
Maxtaform™ introduced "flashed" (plated one side with Rhodium) grids to give positive identification to one surface of the grid. These "High Grade" grids also eliminate tarnishing of the Cu grids with the Rhodium flashing. Maxtaform™ also manufactures a range of precise indicator/reference grids.

### ■ Maxtaform™ 100 Mesh Grids

**100 Mesh: Rhodium Coated Copper**

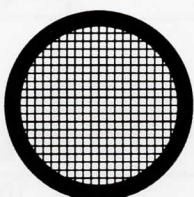
<b>79703</b>	Maxtaform™ Grid, 100 mesh, Rh Flashed Copper	100/vial
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### ■ Maxtaform™ 150 Mesh Grids

**150 Mesh: Rhodium Coated Copper**

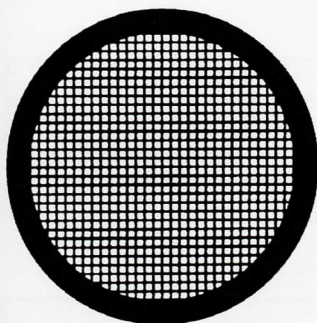
<b>79705</b>	Maxtaform™ Grid, 150 mesh, Rh Flashed Copper	100/vial
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### ■ Maxtaform™ 200 Mesh Grids

**200 Mesh: Rhodium Coated Copper**

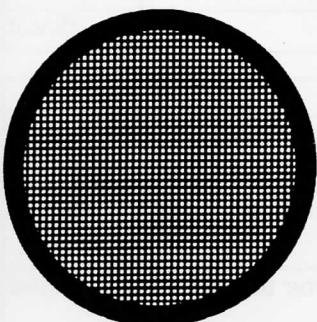
<b>79709</b>	Maxtaform™ Grid, 200 mesh, Rh Flashed Copper	100/vial
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### ■ Maxtaform™ 300 Mesh Grids

**300 Mesh: Rhodium Coated Copper**

<b>79710</b>	Maxtaform™ Grid, 300 mesh, Rh Flashed Copper	100/vial
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### ■ Maxtaform™ 400 Mesh Grids

**400 Mesh: Rhodium Coated Copper**

<b>79712</b>	Maxtaform™ Grid, 400 mesh, Rh Flashed Copper	100/vial
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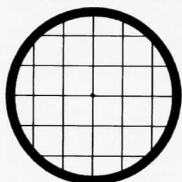
## Veco Grids

The VECO grids are the most rigid of all mesh grids and offer superior strength while handling. These 3.05mm (0.12") OD grids are manufactured by a precision electroplating process and have a thickness of 20  $\mu\text{m}$ . These grids have a shiny and matt side. VECO grids are available in different styles with square, thin/thick bar and hexagonal, mesh, holes and slots. Materials are Cu, Ni and Au. Packaging for the Cu and Ni grids is 100/vial and for Au grids 25/vial.

Square Mesh	Pitch $\mu\text{m}$	Hole Width $\mu\text{m}$	Bar Width $\mu\text{m}$
50	500	450	50
75	333	283	50
100	250	200	50
150	167	117	50
200	125	85	40
300	83	45	38
400	63	30	33

**Note: Additional technical information on web site.**

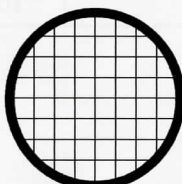
### Veco 50 Mesh Center Reference Grids



**50 Mesh: Pitch 500 $\mu\text{m}$ ; Hole Width 450 $\mu\text{m}$ ; Bar Width 50 $\mu\text{m}$**

<b>12551-CU</b>	Veco Center Reference Grids, 50 mesh, Copper	100/vial
<b>12552-NI</b>	Veco Center Reference Grids, 50 mesh, Nickel	100/vial
<b>12553-AU</b>	Veco Center Reference Grids, 50 mesh, Gold	25/vial

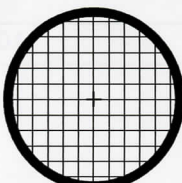
### Veco 75 Mesh Grids



**75 Mesh: Pitch 333 $\mu\text{m}$ ; Hole Width 283 $\mu\text{m}$ ; Bar Width 50 $\mu\text{m}$**

<b>12555-CU</b>	Veco Center Reference Grids, 75 mesh, Copper	100/vial
<b>12556-NI</b>	Veco Center Reference Grids, 75 mesh, Nickel	100/vial
<b>12557-AU</b>	Veco Center Reference Grids, 75 mesh, Gold	25/vial

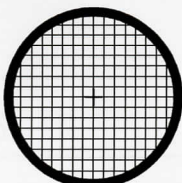
### Veco 100 Mesh Center Reference Grids



**100 Mesh: Pitch 250 $\mu\text{m}$ ; Hole Width 200 $\mu\text{m}$ ; Bar Width 50 $\mu\text{m}$**

<b>12559-CU</b>	Veco Center Reference Grids, 100 mesh, Copper	100/vial
<b>12560-NI</b>	Veco Center Reference Grids, 100 mesh, Nickel	100/vial
<b>12562-AU</b>	Veco Center Reference Grids, 100 mesh, Gold	25/vial

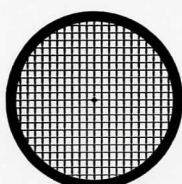
### Veco 150 Mesh Center Reference Grids



**150 Mesh: Pitch 167 $\mu\text{m}$ ; Hole Width 117 $\mu\text{m}$ ; Bar Width 50 $\mu\text{m}$**

<b>12563-CU</b>	Veco Center Reference Grids, 150 mesh, Copper	100/vial
<b>12564-NI</b>	Veco Center Reference Grids, 150 mesh, Nickel	100/vial
<b>12566-AU</b>	Veco Center Reference Grids, 150 mesh, Gold	25/vial

### Veco 200 Mesh Center Reference Grids



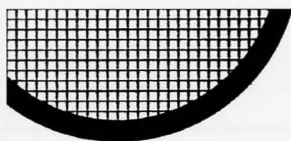
**200 Mesh: Pitch 125 $\mu\text{m}$ ; Hole Width 85 $\mu\text{m}$ ; Bar Width 40 $\mu\text{m}$**

<b>12567-CU</b>	Veco Center Reference Grids, 200 mesh, Copper	100/vial
<b>12568-NI</b>	Veco Center Reference Grids, 200 mesh, Nickel	100/vial
<b>12569-AU</b>	Veco Center Reference Grids, 200 mesh, Gold	25/vial

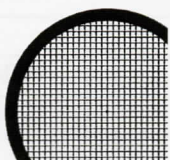
**200 Mesh: with Cut Off and Center Box**

<b>12579-CU</b>	Veco Center Reference Grids with Cut Off and Center Box, 200 mesh, Copper	100/vial
<b>12580-NI</b>	Veco Center Reference Grids with Cut Off and Center Box, 200 mesh, Nickel	100/vial
<b>12581-AU</b>	Veco Center Reference Grids with Cut Off and Center Box, 200 mesh, Gold	25/vial

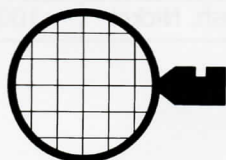


**Veco Center Reference Grids** *Continued***Veco 300 Mesh Center Reference Grids**

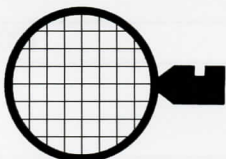
300 Mesh: Pitch 83µm; Hole Width 45µm; Bar Width 38µm		
12571-CU	Veco Center Reference Grids, 300 mesh, Copper	100/vial
12572-NI	Veco Center Reference Grids, 300 mesh, Nickel	100/vial
12573-AU	Veco Center Reference Grids, 300 mesh, Gold	25/vial

**Veco 400 Mesh Center Reference Grids**

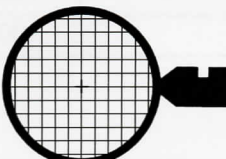
400 Mesh: Pitch 63µm; Hole Width 30µm; Bar Width 33µm		
12575-CU	Veco Center Reference Grids, 400 mesh, Copper	100/vial
12576-NI	Veco Center Reference Grids, 400 mesh, Nickel	100/vial
12577-AU	Veco Center Reference Grids, 400 mesh, Gold	25/vial

**Veco Handle Grids****Veco 50 Mesh Handle Grids**

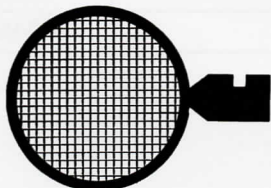
50 Mesh Handle: Pitch 500µm; Hole Width 450µm; Bar Width 50µm		
12583-CU	Veco Handle Grids, 50 mesh, Copper	100/vial
12584-NI	Veco Handle Grids, 50 mesh, Nickel	100/vial

**Veco 75 Mesh Handle Grids**

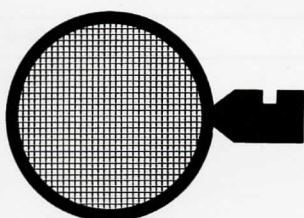
75 Mesh Handle: Pitch 333µm; Hole Width 283µm; Bar Width 50µm		
12586-CU	Veco Handle Grids, 75 mesh, Copper	100/vial
12587-NI	Veco Handle Grids, 75 mesh, Nickel	100/vial

**Veco 100 Mesh Handle Grids**

100 Mesh Handle: Pitch 250µm; Hole Width 200µm; Bar Width 50µm		
12589-CU	Veco Handle Grids, 100 mesh, Copper	100/vial
12590-NI	Veco Handle Grids, 100 mesh, Nickel	100/vial

**Veco 200 Mesh Handle Grids**

200 Mesh Handle: Pitch 125µm; Hole Width 85µm; Bar Width 40µm		
12592-CU	Veco Handle Grids, 200 mesh, Copper	100/vial
12593-NI	Veco Handle Grids, 200 mesh, Nickel	100/vial

**Veco 300 Mesh Handle Grids**

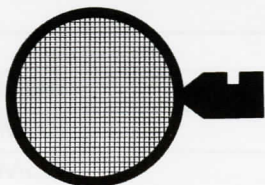
300 Mesh Handle: Pitch 83µm; Hole Width 45µm; Bar Width 38µm		
12595-CU	Veco Handle Grids, 300 mesh, Copper	100/vial
12596-NI	Veco Handle Grids, 300 mesh, Nickel	100/vial

# GRIDS

## Veco Handle, Thick-Thin, Slotted Pattern, Single Slot

### Veco Handle Grids *Continued*

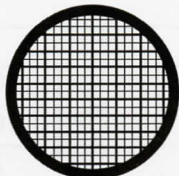
#### ■ Veco 400 Mesh Handle Grids



**400 Mesh Handle: Pitch 63μm; Hole Width 30μm; Bar Width 33μm**

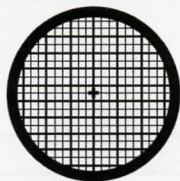
<b>12598-CU</b>	Veco Handle Grids, 400 mesh, Copper	100/vial
<b>12599-NI</b>	Veco Handle Grids, 400 mesh, Nickel	100/vial

#### ■ Veco Thick-Thin Bar Grids



**400 Mesh Thick-Thin Grids**

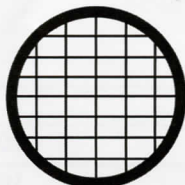
<b>12604-CU</b>	Veco Thick-Thin Grids, 100 mesh, Copper	100/vial
<b>12605-NI</b>	Veco Thick-Thin Grids, 100 mesh, Nickel	100/vial



**400 Mesh Thick-Thin Grids with Center Reference**

<b>12607-CU</b>	Veco Thick-Thin Grids with Center Reference, 100 mesh, Copper	100/vial
<b>12608-NI</b>	Veco Thick-Thin Grids with Center Reference, 100 mesh, Nickel	100/vial

#### ■ Veco Slotted Pattern Grids



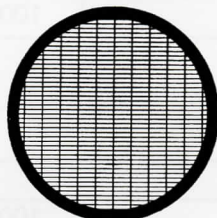
**50/75 Mesh Slotted Pattern Grids**

<b>12610-CU</b>	Veco Slotted Pattern Grids, 50/75 mesh, Copper	100/vial
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**75/300 Mesh Slotted Pattern Grids**

<b>12613-CU</b>	Veco Slotted Pattern Grids, 75/300 mesh, Copper	100/vial
<b>12614-N</b>	Veco Slotted Pattern Grids, 75/300 mesh, Nickel	100/vial



**100/400 Mesh Slotted Pattern Grids**

<b>12616-CU</b>	Veco Slotted Pattern Grids, 100/400 mesh, Copper	100/vial
<b>12614-NI</b>	Veco Slotted Pattern Grids, 100/400 mesh, Nickel	100/vial

#### ■ Veco Single Slot Grids

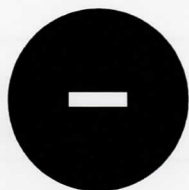


**Single Slot Grids, 2 x 0.6mm**

<b>12667-CU</b>	Veco Single Slot Grids, 2 x 0.6mm, Copper	100/vial
<b>12668-NI</b>	Veco Single Slot Grids, 2 x 0.6mm, Nickel	100/via



## ■ Veco Single Slot Grids *Continued*



### Single Slot Grids, 1 x 0.2mm

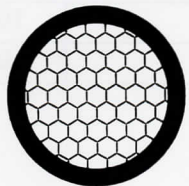
<b>12670-CU</b>	Veco Single Slot Grids, 1 x 0.2mm, Copper	100/vial
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## Veco Grid Size Specifications

Square Mesh	Pitch $\mu\text{m}$	Hole $\mu\text{m}$	Bar $\mu\text{m}$
50	500	450	50
75	333	283	50
100	250	200	50
150	167	117	50
200	125	85	40
300	83	45	38
400	63	30	33
<b>Slotted Pattern Mesh</b>			
50/75	50/333	450/283	50/50
75/300	333/83	283/43	40/40
100/400	250/63	212/25	38/38
<b>Hexagonal Mesh</b>			
75	333	283	50
100	250	200	50
200	125	85	40
300	83	45	38
400	63	30	33

## Veco Hexagonal Grids

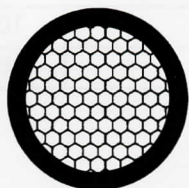
### ■ Veco 75 Mesh Hexagonal Grids



### 75 Mesh, Hexagonal Grids

<b>12630-CU</b>	Veco Hexagonal, 75 mesh, Copper	100/vial
<b>12631-NI</b>	Veco Hexagonal, 75 mesh, Nickel	100/vial

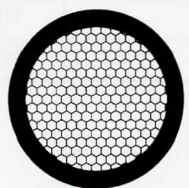
### ■ Veco 100 Mesh Hexagonal Grids



### 100 Mesh, Hexagonal Grids

<b>12633-CU</b>	Veco Hexagonal, 100 mesh, Copper	100/vial
<b>12634-NI</b>	Veco Hexagonal, 100 mesh, Nickel	100/vial

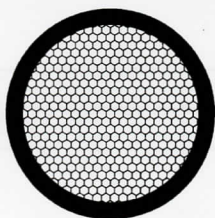
### ■ Veco 200 Mesh Hexagonal Grids



### 200 Mesh, Hexagonal Grids

<b>12636-CU</b>	Veco Hexagonal, 200 mesh, Copper	100/vial
<b>12637-NI</b>	Veco Hexagonal, 200 mesh, Nickel	100/vial

## ■ Veco 300 Mesh Hexagonal Grids

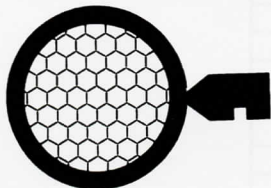


### 300 Mesh, Hexagonal Grids

<b>12639-CU</b>	Veco Hexagonal, 300 mesh, Copper	100/vial
<b>12640-NI</b>	Veco Hexagonal, 300 mesh, Nickel	100/vial

## Veco Hexagonal Handle Grids

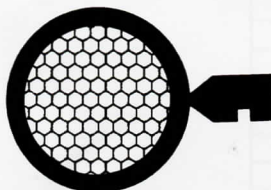
### ■ Veco 75 Mesh Hexagonal Handle Grids



### 75 Mesh, Hexagonal Handle Grids

<b>12642-CU</b>	Veco Hexagonal Handle Grids, 75 mesh, Copper	100/vial
<b>12643-NI</b>	Veco Hexagonal Handle Grids, 75 mesh, Nickel	100/vial

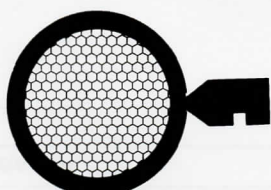
### ■ Veco 100 Mesh Hexagonal Handle Grids



### 100 Mesh, Hexagonal Handle Grids

<b>12646-CU</b>	Veco Hexagonal Handle Grids, 100 mesh, Copper	100/vial
<b>12647-NI</b>	Veco Hexagonal Handle Grids, 100 mesh, Nickel	100/vial

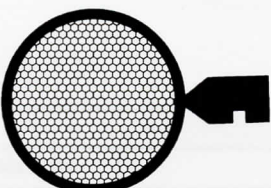
### ■ Veco 200 Mesh Hexagonal Handle Grids



### 200 Mesh, Hexagonal Handle Grids

<b>12649-CU</b>	Veco Hexagonal Handle Grids, 200 mesh, Copper	100/vial
<b>12650-NI</b>	Veco Hexagonal Handle Grids, 200 mesh, Nickel	100/vial

### ■ Veco 300 Mesh Hexagonal Handle Grids



### 300 Mesh, Hexagonal Handle Grids

<b>12652-CU</b>	Veco Hexagonal Handle Grids, 300 mesh, Copper	100/vial
<b>12653-NI</b>	Veco Hexagonal Handle Grids, 300 mesh, Nickel	100/vial

### ■ Veco 400 Mesh Hexagonal Handle Grids

### 400 Mesh, Hexagonal Handle Grids

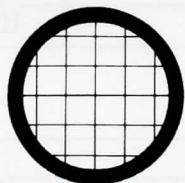
<b>12655-CU</b>	Veco Hexagonal Handle Grids, 400 mesh, Copper	100/vial
<b>12656-NI</b>	Veco Hexagonal Handle Grids, 400 mesh, Nickel	100/vial



## Athene Grids

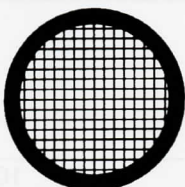
Athene grids production started over 60 years ago, about 1948, and still retain the qualities which made the pioneer electron microscopists appreciative: sharp burr-free bars and corners, and close quality inspection. Different styles have been added over the years. Styles available are square mesh, honeycomb and slots. Standard diameter is 3.05mm and materials are in Cu, Ni and Au.

### ■ Athene 50 Mesh Grids



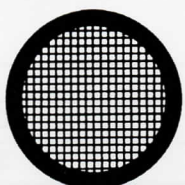
50 Mesh, Holes 450µm square		
G209	Athene Grids, 50 mesh, Copper	100/vial

### ■ Athene 150 Mesh Grids

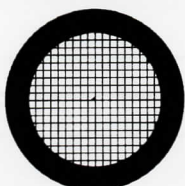


150 Mesh, Holes 150µm square		
G201	Athene Grids, 150 mesh, Copper	100/vial

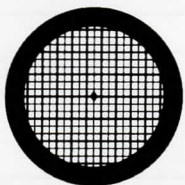
### ■ Athene 200 Mesh Grids



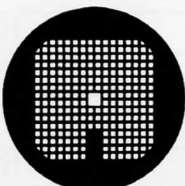
200 Mesh, Holes 100µm square		
G202	Athene Grids, 200 mesh, Copper	100/vial
G202N	Athene Grids, 200 mesh, Nickel	100/vial



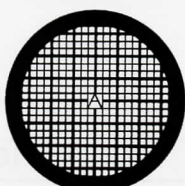
200 Mesh, Thin-Bar, 10µm bar width, center marked		
G2002	Athene Thin-Bar Grids, 200 mesh, Copper	100/vial
G2002N	Athene Thin-Bar Grids, 200 mesh, Nickel	100/vial



200 Mesh, Thick-Thin Bar, 105µm square holes, center marked		
G206	Athene Thick-Thin Bar Grids, 200 mesh, Copper	100/vial



200 Mesh, SIRA, open central square		
G216	Athene SIRA Grids, 200 mesh, Copper	100/vial



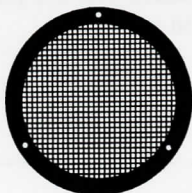
200 Mesh, center marked		
G2220C	Athene Center Marked Grids, 200 mesh, Copper	100/vial
G2220A	Athene Center Marked Grids, 200 mesh, Gold	50/vial

# GRIDS

Athene Mesh; Honeycomb; Polyslot

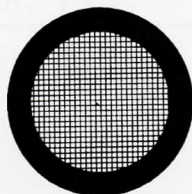
## Athene Grids *continued*

### ■ Athene 300 Mesh Grids



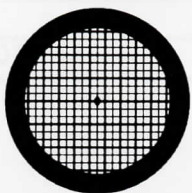
#### 300 Mesh, Holes 70µm square

G203	Athene Grids, 300 mesh, Copper	100/vial
G203N	Athene Grids, 300 mesh, Nickel	100/vial



#### 300 Mesh, Thin-Bar, 10µm bar width, center marked

G2003	Athene Thin-Bar Grids, 300 mesh, Copper	100/vial
G2003N	Athene Thin-Bar Grids, 300 mesh, Nickel	100/vial



#### 300 Mesh, Thick-Thin Bar, 75µm square holes, center marked

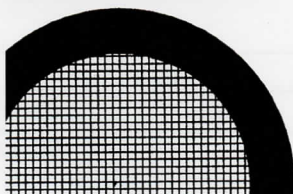
G207	Athene Thick-Thin Bar Grids, 300 mesh, Copper	100/vial
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### ■ Athene 400 Mesh Grids



#### 400 Mesh, Holes 45µm square

G204	Athene Grids, 400 mesh, Copper	100/vial
G2400A	Athene Grids, 400 mesh, Gold	50/vial



#### 400 Mesh, Thin-Bar, 10µm bar width, center marked

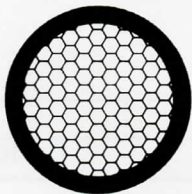
G2004	Athene Thin-Bar Grids, 400 mesh, Copper	100/vial
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#### 400 Line, Parallel Bar

G2016A	Athene Parallel Bar Grids, 400 mesh, Copper	100/vial
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### ■ Athene Honeycomb Mesh Grids



#### 100 Mesh Honeycomb, 240µm across opening

G214	Athene Hexagon Grids, 100 mesh, Copper	100/vial
G214N	Athene Hexagon Grids, 100 mesh, Nickel	100/vial

#### 400 Mesh Honeycomb

G2440C	Athene Grids, 400 mesh, Copper	100/vial
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### ■ Athene Polyslot Grids



#### 4 Slots

G227	Athene Polyslot Grids, 350 to 700µm, Copper	100/vial
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## PELCO® SynapTek™ Grids

### ■ SynapTek™ Grids

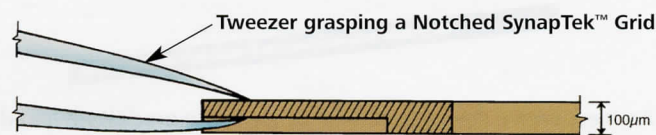
The SynapTek™ grids are made of a special alloy (beryllium copper) which makes these grids extremely sturdy and gives perfect stability for coating with a support film. These grids are easy to clean, contamination free and reusable after cleaning. The thickness of the SynapTek™ grids is 100µm (4 mil), diameter is 3.05mm. Standard oval slot size is 1x2mm. The DOT type is also available with a slot size of 0.5x2mm. The gold plated SynapTek™ grid (GILDED) has been developed for special applications such as immunology research. **This innovative design may increase your confidence with grid handling.**

**DOT:** One side of the grid is marked with 2 dots for clear identification, visible to the naked eye.

**NUM:** A number stamped on the grid for identification. Numbers are in random order and may be duplicated.

**NOTCH:** An indentation is stamped on one side of the grid to enable easy grasping by tweezers.

*special identity marking, easy to grasp with your tweezers*



**Notched SynapTek™ Grids permit easier grasping by tweezers.**



DOT (1 x 2mm slot)		
<b>4510</b>	SynapTek™ DOT Grids, 1 x 2mm slot, Beryllium-Copper	100/vial



DOT (0.5 x 2mm slot)		
<b>4511</b>	SynapTek™ DOT Grids, 0.5 x 2mm slot, Beryllium-Copper	100/vial



NUM (1 x 2mm slot)		
<b>4512</b>	SynapTek™ NUM Grids, 1 x 2mm slot, Beryllium-Copper	100/vial



NOTCH (1 x 2mm slot)		
<b>4514</b>	SynapTek™ NOTCH Grids, 1 x 2mm slot, Beryllium-Copper	100/vial



NOTCH-DOT (1 x 2mm slot)		
<b>4516</b>	SynapTek™ NOTCH-DOT Grids, 1 x 2mm slot, Beryllium-Copper	100/vial



NOTCH-NUM (1 x 2mm slot)		
<b>4518</b>	SynapTek™ NOTCH-NUM Grids, 1 x 2mm slot, Beryllium-Copper	100/vial



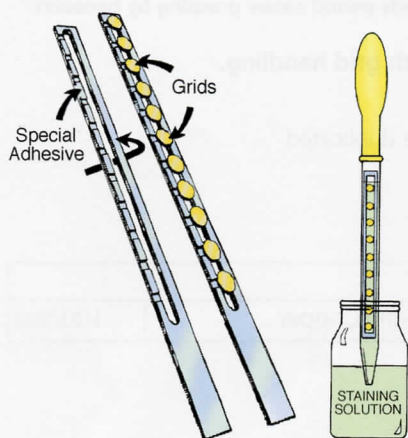
GILDED NOTCH-NUM (1 x 2mm slot)		
<b>4506</b>	SynapTek™ GILDED NOTCH-NUM Grids, 1 x 2mm slot, Beryllium-Copper, Gold Plated	100/vial

## ■ PELCO® SynapTek GridStick™

staining and storage for EM



An inexpensive device to reduce or eliminate precipitate and dirt from your electron microscopy grids during staining.



Full loaded SynapTek™ GridStick™ with  
1 x 2mm Synaptek™ Grids

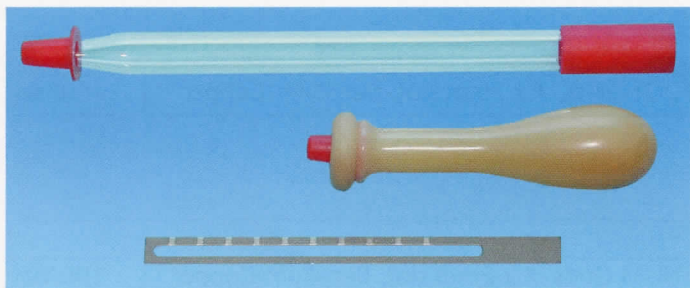
The SynapTek GridStick™ is manufactured from a thin but rigid alloy that does not react with commonly used organic solvents and stains. The stick is 4mm wide by 75mm long and has a slot along its center with small undercut notches on one side to make grid removal simple.

A small area on top of each stick is reserved for identification (use a fine point permanent ink pen).

The PELCO® SynapTek GridStick™ is coated with a specially formulated pressure-sensitive adhesive. This adhesive holds the grids in place during staining, emulsion coating, carbon coating, shadow casting and serial section collection.

The PELCO® SynapTek GridStick™ will fit into conventional Pasteur pipettes. The grids lie in the same plane as the solution flow, minimizing chances of breaking Formvar films and collecting surface debris.

The PELCO® SynapTek GridStick™ was developed in conjunction with PELCO® SynapTek™ Grids. Other grids may be used provided they have sufficient thickness to avoid bending when being removed from the adhesive on the PELCO® SynapTek GridStick™. PELCO® SynapTek™ Grids are 100µm thick.



### Complete PELCO® SynapTek GridStick™ Kit:

5 coated GridSticks, 10 Staining Pipettes, 2 flow-limiting Plugs and Bulbs plus Instructions.

Note: Staining Pipettes are fire polished, heat annealed, acid cleaned, blow dried with filtered compressed air and capped.

**155** PELCO® SynapTek GridStick™ Kit . . . . .each

### SynapTek™ Replacement Components

**155-5** PELCO® SynapTek GridSticks™ Uncoated . . . .pkg/10

**155-7** Staining Pipettes with  
2 flow limiting plugs . . . . .pkg/20



### ■ GridStick™ Adhesive


For adhering grids to the GridStick™, includes instructions and coats about 200 GridSticks.

**155-9** GridStick™ Adhesive, 5ml . . . . .each

### ■ Grid Coating Pen

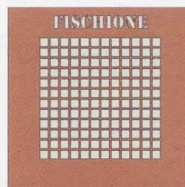


A light touch with this pen will provide a

thin layer of adhesive on the grid. Layer will dry in 1-2 minutes at room temperature and is then ready to receive the sections. Pen may also be used as pretreatment before coating grids with formvar or other thin films.  (MSDS on web site)

**1556** Grid Coating Pen . . . . .each

### ■ Tomography Grids



1.5mm square copper grid, 300 mesh.

**5GC300** Tomography Grids, 300 mesh, Cu . . . . .pkg/50

### Tomography Grids with Support Films Applied

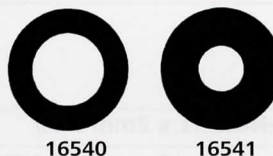
**5GC300-16650** Lacey Carbon on Tomography Grids,  
300 mesh, Cu . . . . .pkg/50

**5GC300-16625** Lacey Carbon on Tomography Grids,  
300 mesh, Cu . . . . .pkg/25

**5GC300-16050** Carbon Film on Tomography Grids,  
300 mesh, Cu . . . . .pkg/50

**5GC300-16025** Carbon Film on Tomography Grids,  
300 mesh, Cu . . . . .pkg/25

### ■ PELCO® Pyrolytic Carbon Grids



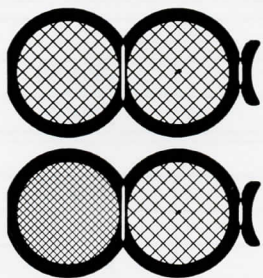
PELCO® Pyrolytic carbon grids are offered having two hole sizes. The grids are 3mm O.D. (standard) and can be handled like any ordinary grid.

**16540** PELCO® Pyrolytic Carbon Grid,  
1.5mm hole . . . . .pkg/10

**16541** PELCO® Pyrolytic Carbon Grid,  
1.0mm hole . . . . .pkg/10



## Titanium Folding Grids



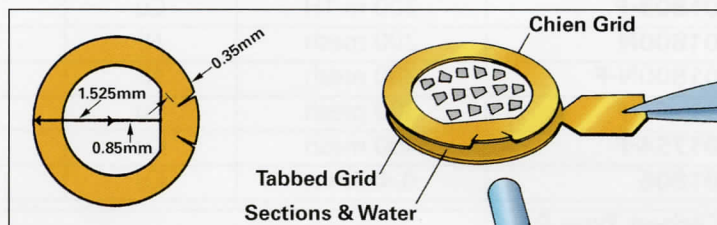
Titanium Grids, etched from high grade titanium sheets. Useful for high temperature, low temperature cryogenic and *in situ* applications.

### Titanium Folding 100/100 and 100/200 Mesh

<b>G2466TI</b>	Folding, 100/100 Mesh, Titanium	25/vial
<b>G2467TI</b>	Folding, 100/200 Mesh, Titanium	25/vial

## Chien Grids

1. Used to pick up many individual sections or ribbons and to transfer them onto another grid
2. It can also be formvar coated as a receiving grid for examination of a large number of sections.
3. When formvar coated, it will support 2 or even 3 parallel ribbons of serial sections, with no obscuring grid bars.
4. Hole size 50% greater than the largest slot grid.
5. There are two slits in the rim area which allow it to be easily bent with forceps to make a tab, while keeping the remainder of the grid surface flat prior to picking up ribbons.



References: Chien K, Van de Velde R, Heusser R, 1985. Simultaneous ultramicrotomy of multiple areas and examination of ribbons on one new grid. Proc 43rd Annual Meeting, Elec Micr Soc Amer, G W Bailey, ed, San Francisco Press, 460.

Galey FR, Nilsson SEG, 1966. A new method for transferring sections from the liquid surface of the trough through staining solutions to the supporting film of a grid. J Ultrastruct Res, 14, 405-410.

<b>9GC20H</b>	Chien One-Hole Grids, 2.375mm, 3.0mm O.D., Copper	100/vial
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## PELCO® FIB Half Grid

Half grid Lift-Out TEM sample holder, made of copper/beryllium, is approximately 100µm thick, slot is 2mm wide x 0.5mm deep. The sturdy holders offer easy handling and good protection for the TEM sample.



<b>4510-HALF</b>	PELCO® Sample Holder for FIB Applications	25/vial
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## Omniprobe Lift-Out Grids

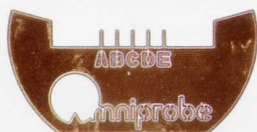
The Omniprobe Lift-Out grids are specifically designed to accept the TEM lamella's milled out by FIB or SEM/FIB systems. Typical thickness of the grids is 25-30µm. The posts are designed for optimum access and provide a secure area for attaching (welding) the lamella(s). The Omniprobe grids fit standard TEM holders and provide a non-obscured view of the thin sections attached to the posts.



<b>460-203</b>	Omniprobe Lift-Out Grids, Cu with 3 posts	pkg/100
<b>460-223</b>	Omniprobe Lift-Out Grids, Mo with 3 posts	pkg/25



<b>460-204</b>	Omniprobe Lift-Out Grids, Cu with 4 posts	pkg/100
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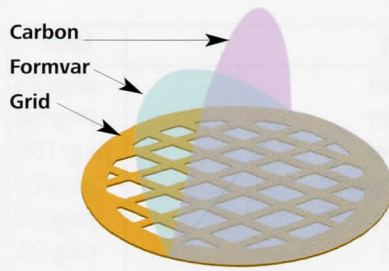


<b>460-205</b>	Omniprobe Lift-Out Grids, Cu with 5 posts	pkg/100
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<b>PELCO® SUBSTRATES Overview</b>				
<b>Formvar Coated Grids</b>				
<b>01700-F</b>	75 mesh	Cu	Formvar	pkg/50
<b>01706</b>	0.4x2mm	Cu	Formvar	pkg/25
<b>Formvar Stabilized with Carbon</b>				
<b>01802-F</b>	75 mesh	Cu	Formvar/Carbon	pkg/50
<b>01800</b>	200 mesh	Cu	Formvar/Carbon	pkg/25
<b>01800-F</b>	200 mesh	Cu	Formvar/Carbon	pkg/50
<b>01801</b>	200 mesh	Cu	Formvar/Carbon	pkg/100
<b>01803</b>	200 m TH	Cu	Formvar/Carbon	pkg/25
<b>01803-F</b>	200 m TH	Cu	Formvar/Carbon	pkg/50
<b>01800N</b>	200 mesh	Ni	Formvar/Carbon	pkg/25
<b>01800N-F</b>	200 mesh	Ni	Formvar/Carbon	pkg/50
<b>01753-F</b>	300 mesh	Cu	Formvar/Carbon	pkg/50
<b>01754-F</b>	400 mesh	Cu	Formvar/Carbon	pkg/50
<b>01806</b>	0.4x2mm	Cu	Formvar/Carbon	pkg/25
<b>Carbon Type B</b>				
<b>Formvar with a heavier layer of Carbon</b>				
<b>01810</b>	200 mesh	Cu	Carbon Type B	pkg/25
<b>01811</b>	200 mesh	Cu	Carbon Type B	pkg/100
<b>01813</b>	300 mesh	Cu	Carbon Type B	pkg/25
<b>01813-F</b>	300 mesh	Cu	Carbon Type B	pkg/50
<b>01810G-F</b>	300 mesh	Au	Carbon Type B	pkg/50
<b>01814-F</b>	400 mesh	Cu	Carbon Type B	pkg/50
<b>(a) Carbon Type-A FA Carbon Film of 15-25nm Thickness</b>				
<b>01820</b>	300 mesh	Cu	Carbon Type A	pkg/25
<b>01821</b>	300 mesh	Cu	Carbon Type A	pkg/100
<b>(b) Ultrathin Carbon Type-A Film on Holey Carbon Film</b>				
<b>01824</b>	400 mesh	Cu	Ultrathin Carbon	pkg/25
<b>(a) Formvar Stabilized with Silicon Monoxide</b>				
<b>01830</b>	200 mesh	Cu	Silicon Monoxide Type-A	pkg/525
<b>(b) Silicon Monoxide with removable Formvar</b>				
<b>01829</b>	300 mesh	Cu	Silicon Monoxide w/removable Formvar	pkg/25
<b>01829-F</b>	300 mesh	Cu	Silicon Monoxide w/removable Formvar	pkg/50
<b>(a) Lacey Formvar Stabilized with Carbon</b>				
<b>01881</b>	200 mesh	Cu	Formvar/Carbon	pkg/25
<b>01881-F</b>	200 mesh	Cu	Formvar/Carbon	pkg/50
<b>01883</b>	300 mesh	Cu	Formvar/Carbon	pkg/25
<b>01883-F</b>	300 mesh	Cu	Formvar/Carbon	pkg/50
<b>(b) Lacey Carbon Type A with Removable Formvar</b>				
<b>01890</b>	300 mesh	Cu	Lacey Carbon Type-A	pkg/25
<b>01890-F</b>	300 mesh	Cu	Lacey Carbon Type-A	pkg/50
<b>(c) Lacey Silicon Monoxide on Formvar</b>				
<b>01887-F</b>	300 mesh	Cu	Lacey Silicon Monoxide on Formvar	pkg/50



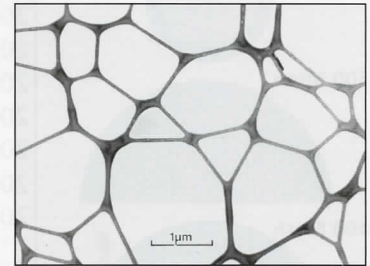
## PELCO® Formvar and Carbon Support Film Grids



PELCO® Support Films of Formvar, Carbon and Silicon Monoxide are available on the following 3.05mm O.D. grids: 0.4 x 2mm single slot Cu, 75 mesh Cu, 200 mesh Cu or Ni, 300 mesh Cu or Au and 400 mesh Cu.

Support films on the finer mesh grids can withstand considerable handling during specimen preparation. Those on slot and 75 mesh grids require more gentle handling and are ideal for those applications requiring large viewing areas without grid bar interference.

Our popular line of NetMesh™ Grids (our trademarked lacey films) are available on 200 and 300 mesh grids. These robust



films allow for viewing of specimens without interference from underlying support film material. ⓘ

The complete PELCO® line of support films meets the requirements of most applications in all fields of electron microscopy. Consult "Applications Guide" following ordering information for suggestions on support film choice.

### We Offer Six Types of Support Films

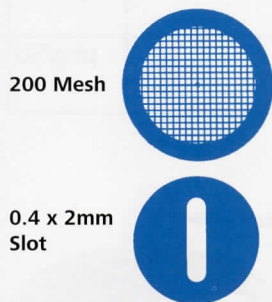
1. **Formvar Layer**
2. **Formvar, stabilized with a thin layer of carbon**
3. **Carbon Type-B:**  
Formvar film with a "heavier" layer of carbon
4. **Carbon Type-A:**
  - a) Carbon support film on removable Formvar
  - b) Ultra thin Carbon on removable Formvar
  - c) Ultra thin Carbon on Holey Carbon Support Film
5. **Carbon Type-A:**
  - a) Formvar stabilized with a thin layer of Silicon Monoxide
  - b) Type-A Silicon Monoxide on a removable Formvar Backing
6. **Netmesh™ Lacey Support Films:**
  - a) Lacey Formvar Stabilized with Carbon
  - b) Type-A Lacey carbon with removable Formvar backing
  - c) Lacey Formvar film stabilized with Silicon Monoxide

### Thickness of Support Films

The following is a guide to the relative thickness of the support films. The actual thickness varies depending on a number of factors during the deposition process.

1. **Formvar Layer**, measured with a Tencor Alpha-Step 200 profilometer:  
All Formvar Films - 30 to 60 nm.
2. **Carbon Layer**, measured with a Film Thickness Monitor during evaporation:
  - On **Formvar Stabilized with Carbon** - 5 to 10nm
  - On **Carbon Type-A** - 15 to 25nm
  - On **Carbon Type-B** - 15 to 25nm
  - On **Ultrathin Carbon Type-A** - 3 to 4nm
  - On **Ultrathin Carbon Film over Holey Carbon Film** - under 3nm

■ **1. Formvar:** A film of pure Formvar, with no stabilizing coating. These films are useful for your customized coating of stabilizing material or for the support of thin sections.



Mesh	Prod. No	Description	Unit
200 M	<b>01700-F</b>	Formvar, 200 mesh, copper	pkg/50
0.4 x 2mm	<b>01706</b>	Formvar, 0.4 x 2mm, copper	pkg/25

■ **2. Formvar, Stabilized with Carbon:** A Formvar film covered with a "light" layer of carbon. The heat and electrical conducting properties of carbon help to stabilize the Formvar films when exposed to the electron beam. This is a resilient, all-purpose specimen support film, ideal for mounting thin sections and for applications using lower ranges of magnification. The 200M-TH grids (Prod. No. 01803 and 01803-F) are thicker and more rigid than normal and useful for many applications - particularly where frequent grid handling is involved.



Mesh	Prod. No	Description	Unit
75 M	<b>01802-F</b>	Formvar/Carbon 75 mesh, Copper <i>approx. grid hole size: 292µm</i>	pkg/50

ⓘ = Tech Note on web page

continued on next page

## 2. Formvar, Stabilized with Carbon: *continued*

200 Mesh



300 Mesh



400 Mesh

0.4 x 2mm  
Slot

Mesh	Prod. No	Description	Unit
200 M	<b>01800</b>	Formvar/Carbon 200 mesh, Copper	pkg/25
200 M	<b>01800-F</b>	Formvar/Carbon 200 mesh, Copper	pkg/50
200 M	<b>01801</b>	Formvar/Carbon 200 mesh, Copper	pkg/100
200 M-TH	<b>01803</b>	Formvar/Carbon 200 mesh TH, Copper	pkg/25
200 M-TH	<b>01803-F</b>	Formvar/Carbon 200 mesh TH, Copper	pkg/50
200 M	<b>01800N</b>	Formvar/Carbon 200 mesh, Nickel	pkg/25
200 M	<b>01800N-F</b>	Formvar/Carbon 200 mesh, Nickel <i>approx. grid hole size: 97μm</i>	pkg/50
300 M	<b>01753-F</b>	Formvar/Carbon 300 mesh, Copper <i>approx. grid hole size: 63μm</i>	pkg/50
400 M	<b>01754-F</b>	Formvar/Carbon 400 mesh, Copper <i>approx. grid hole size: 42μm</i>	pkg/50
0.4 x 2mm	<b>01806</b>	Formvar/Carbon 0.4 x 2mm Slot, Copper	pkg/25

■ **3. Carbon Type-B:** A Formvar film coated with a "heavier" layer of carbon. This is the strongest and most versatile support film we produce. It is stable in the EM under all operating conditions including high magnification with high beam intensity. The films can withstand vigorous specimen preparation techniques. If the carbon surface is hydrophobic, specimen suspensions can be applied to the Formvar surface.

200 Mesh



300 Mesh

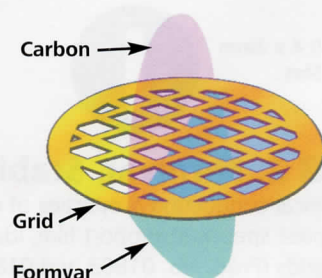


400 Mesh



Mesh	Prod. No	Description	Unit
200 M	<b>01810</b>	Carbon Type-B, 200 mesh, Copper	pkg/25
200 M	<b>01811</b>	Carbon Type-B, 200 mesh, Copper <i>approx. grid hole size: 97μm</i>	pkg/100
300 M	<b>01813</b>	Carbon Type-B, 300 mesh, Copper	pkg/25
300 M	<b>01813-F</b>	Carbon Type-B, 300 mesh, Copper	pkg/50
300 M	<b>01813G-F</b>	Carbon Type-B, 300 mesh, Gold <i>approx. grid hole size: 63μm</i>	pkg/50
400 M	<b>01814-F</b>	Carbon Type-B, 400 mesh, Copper <i>approx. grid hole size: 42μm</i>	pkg/50

■ **4. Carbon Type-A:** Carbon support films with a removable Formvar on the opposite side of the grid. When the Formvar is removed, by dipping in solvent, a pure carbon film remains. (Note: The Ultrathin Carbon Film on a Holey Carbon Support Film, Prod. No. 01824, has no Formvar backing. These films are stable under all EM operating conditions and are for use where the presence of a Formvar layer cannot be tolerated. Pure carbon films tend to be more delicate than those with a Formvar backing and require more delicate handling during specimen preparation than most other support films.



(a) **Carbon Type-A:** Carbon support film of 15 to 25nm thickness. ⓘ

300 Mesh



Mesh	Prod. No	Description	Unit
300 M	<b>01820</b>	Carbon Type-A, 300 mesh, Copper	pkg/25
300 M	<b>01821</b>	Carbon Type-A, 300 mesh, Copper <i>approx. grid hole size: 63μm</i>	pkg/50



## Carbon Type-A: *continued*

**(b) Ultrathin Carbon Type-A:** Carbon support film of approximately 3nm thickness. ①

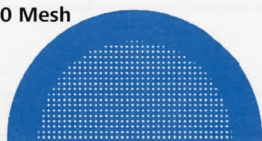
400 Mesh



Mesh	Prod. No	Description	Unit
400 M	<b>01822</b>	Ultrathin Carbon Type-A, 400 mesh, Copper	pkg/25
400 M	<b>01822-F</b>	Ultrathin Carbon Type-A, 400 mesh, Copper	pkg/50
400 M	<b>01822G-F</b>	Ultrathin Carbon Type-A, 400 mesh, Gold <i>approx. grid hole size: 42μm</i>	pkg/50

**(c) Ultrathin Carbon Film on a Holey Carbon Support Film:** Pure carbon support films with no Formvar backing. This product has an even thinner carbon film which is mounted on a carbon holey film. The carbon support layer lying over the holes is less than 3nm in thickness and is the thinnest support film available. It is particularly useful for high resolution microscopy of low contrast particles and is also ideal for use with the Energy Filtering TEM. ①

400 Mesh



Mesh	Prod. No	Description	Unit
400 M	<b>01824</b>	Ultrathin Carbon Film on Holey Carbon Support Film, 400 mesh, Copper <i>approx. grid hole size: 42μm</i>	pkg/25

**5. Silicon Monoxide:** Silicon monoxide produces a highly resilient support film which can withstand vigorous specimen preparation techniques. It has low background contrast, is stable under the electron beam and is less hydrophobic than carbon. We offer two types of silicon monoxide support films:

**(a) Formvar Stabilized with Silicon Monoxide:** A Formvar film coated with a "light" layer of silicon monoxide.

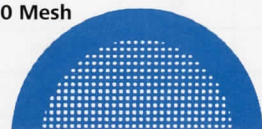
200 Mesh



Mesh	Prod. No	Description	Unit
200 M	<b>01830</b>	Silicon Monoxide/Formvar, 200 mesh, Copper <i>approx. grid hole size: 97μm</i>	pkg/25

**(b) Silicon Monoxide Type-A:** Silicon monoxide with a removable Formvar backing on the opposite side of the grid. When the Formvar is removed, by dipping in solvent, a pure Silicon Monoxide film remains. These films are stable under all EM operating conditions and for use where the presence of Formvar cannot be tolerated. Pure Silicon Monoxide is more delicate than those with Formvar backing and require more careful handling during specimen preparation. ①

300 Mesh

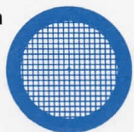


Mesh	Prod. No	Description	Unit
300 M	<b>01829</b>	Silicon Monoxide Type-A, Removable Formvar, 300 mesh, Copper	pkg/25
300 M	<b>01829-F</b>	Silicon Monoxide Type-A, Removable Formvar, 300 mesh, Copper <i>approx. grid hole size: 63μm</i>	pkg/50

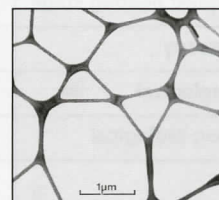
**6. Lacey Support Films - NetMesh™ Grids:** Lacey Support Film A lacey network support film. The holes in the lacey support film vary in size from less than a quarter micron to more than 10 microns making them ideal for any type of specimen. Lacey support films are strong and withstand vigorous specimen preparation treatment. The specimen material is supported by the film network but lies across or protrudes into the holes of the mesh. This allows high definition imaging without the effects of underlying support material. Lacey films can be used for specimens ranging from large crystals and other particulate material to virus particles. Smaller particles, such as viruses or bacteria, tend to adhere around the inner edges of the holes, an ideal situation for high resolution microscopy. Lacey films are also ideal for selected area electron diffraction imaging. We offer three types of lacey film:

**(a) Lacey Formvar Stabilized with Carbon:** A Lacey Formvar film coated with a "heavy" layer of carbon.

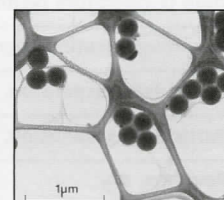
200 Mesh



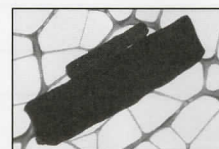
Mesh	Prod. No	Description	Unit
200 M	<b>01881</b>	Lacey Formvar/Carbon, 200 mesh, Copper	pkg/25
200 M	<b>01881-F</b>	Lacey Formvar/Carbon, 200 mesh, Copper <i>approx. grid hole size: 97μm</i>	pkg/50



Lacey Support Film



0.26μm dia. Latex on a Lacey Support Film, example of application



Molybdenum Trioxide Crystal on a Lacey Support Film, example of application

# GRIDS

## Substrates, Support Film Grids

(a) **Lacey Formvar Stabilized with Carbon:** A Lacey Formvar film coated with a "heavy" layer of carbon. *continued*

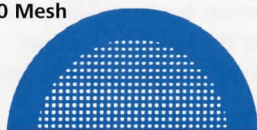
300 Mesh



Mesh	Prod. No	Description	Unit
300 M	<b>01883</b>	Lacey Formvar/Carbon, 300 mesh, Copper	pkg/25
300 M	<b>01883-F</b>	Lacey Formvar/Carbon, 300 mesh, Copper <i>approx. grid hole size: 63μm</i>	pkg/50

(b) **Lacey Carbon Type-A:** A lacey carbon film with a removable Formvar backing. ⓘ

300 Mesh



Mesh	Prod. No	Description	Unit
300 M	<b>01890</b>	Lacey Carbon Type-A, 300 mesh, Copper	pkg/25
300 M	<b>01890-F</b>	Lacey Carbon Type-A, 300 mesh, Copper <i>approx. grid hole size: 63μm</i>	pkg/50

(c) **Lacey Silicon Monoxide on Formvar:** A lacey Formvar film stabilized with Silicon Monoxide.

300 Mesh

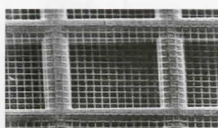


Mesh	Prod. No	Description	Unit
300 M	<b>01887-F</b>	Lacey Silicon Monoxide on formvar, 300 mesh, Copper <i>approx. grid hole size: 63μm</i>	pkg/50

## Support Film Grids, Substrate Application Guide

This Support Film Application Guide will help you determine what support film to use for your particular transmission electron microscopy project. Once you have decided which substrate best suits your needs, you can go back up on the page for a listing of available Support Films.

	Formvar Only Carbon	Formvar Stab. with Carbon	Silicon Monoxide on Formvar	Silicon Monoxide on Type-A	Carbon Type-A	Carbon Type-B	Is Lacey Film suitable for this application?
<b>B= Best</b> <b>G= Good Alternative</b> <b>- = Not Suitable</b>							
<b>Substrate Application</b>							
Applications requiring pure Formvar	<b>B</b>	-	-	-	-	-	No
Bacterial Suspensions	-	<b>G</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	Yes
Cell fragment suspensions	-	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	Yes
Diffraction studies	-	-	<b>G</b>	<b>G</b>	<b>B</b>	<b>B</b>	Yes
EDS (energy dispersive spectrometry)	-	<b>G</b>	-	-	<b>B</b>	<b>B</b>	Yes
High resolution microscopy	-	-	<b>G</b>	<b>B</b>	<b>B</b>	<b>B</b>	Yes (Type A)
High temperature techniques/ heating stage	-	-	-	<b>G</b>	<b>G</b>	-	No
Low magnification microscopy	<b>G</b>	<b>B</b>	<b>B</b>	<b>G</b>	<b>G</b>	<b>B</b>	No
Particulate suspension, biological	-	<b>G</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	Yes
Particulate suspension, non-biological	-	<b>G</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	Yes
Powders, dry	-	<b>G</b>	<b>B</b>	<b>G</b>	<b>G</b>	<b>B</b>	No
Replicas & low temperature techniques	<b>G</b>	<b>B</b>	-	-	<b>G</b>	<b>B</b>	Yes (Type A)
Thin sections	<b>G</b>	<b>B</b>	<b>G</b>	<b>B</b>	<b>G</b>	<b>B</b>	Yes
Viral suspensions	-	-	<b>G</b>	<b>B</b>	<b>B</b>	<b>B</b>	Yes



For Quantifoil Substrates go to  
Support Films page 577

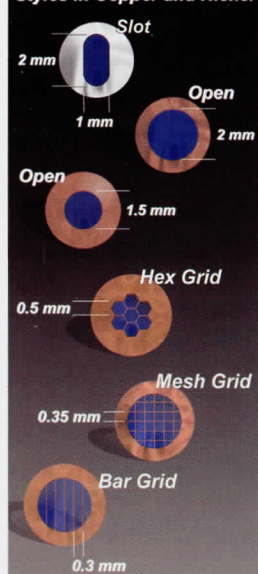


For Silicon Nitride Membranes and  
Aperture Frames go to page 578-581



**LUXFilm™ TEM Supports Large Area TEM Support Frames**

LUXFilm™ TEM supports are strong thin films that can span large open areas within the standard 3mm TEM grid diameter. They are available as unobstructed areas up to 2mm diameter or with a few support bars still delivering open areas of 0.3 to 0.5mm. The support films have excellent beam stability and are robust to cryogenic temperatures. The LUXFilm™ TEM Supports improve efficiency and throughput of TEM work by allowing the researcher to view the entire specimen. Important for imaging large structures, tracing features, searching for special details and tomography. The support films are available in 50 and 30nm thickness and with copper and nickel support frames.

**Styles in Copper and Nickel****Features and benefits of LUXFilm™ TEM Supports:**

**Strong** - LUXFilm™ is about 5x stronger than formvar. The films are compatible with a variety of common stains and ethanol based solutions (not for use with ammonium molybdate stains).

**Large unobstructed viewing area** - LUXFilm™ TEM Supports enable imaging of the entire specimen without interference from grid bars.

**Flat** - The films are stretched on a copper or nickel supporting frame, exhibiting superior flatness. Used for particle counting or screening applications, meniscus effects are eliminated: particles spread more evenly and do not collect next to grid bars.

**Excellent beam stability** - The films exhibit very little drift or charging effects in the TEM compared with formvar/carbon. Suitable for electron beam energies from 80 - 300kV.

**Wettability** - LUXFilm™ has a favorably inherent surface energy for epoxy-embedded sections. Serial ribbons lay down flat and tend to "stick" to the film. Surface treatment can be performed to prepare the supports for negative stains and acrylic-embedded specimens.

**No autofluorescence** - LUXFilm™ TEM Supports exhibit no autofluorescence and no unspecific labeling with antibody stains. This will make the films an ideal choice for correlative microscopy and immunocytochemistry in the EM. The large viewing area will assure that all labeled features are visible.

Applications areas for the LUXFilm™ TEM Support films are in demanding and routine TEM imaging with electron beam energies preferably in the 80-300kV range or:

- large sections
- tomography
- thick materials
- pathology
- Immunocytochemistry
- particle count and screening.

**PELCO® Grid Staining System**

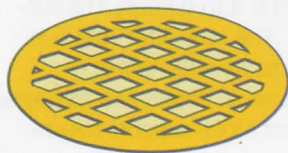
See  
**STAINING  
VESSELS**  
page 358

<b>12810-CU</b>	Ø1.5mm open area on Cu support, 50nm film thickness	pkg/10
<b>12812-CU</b>	Ø2.0mm open area on Cu support, 50nm film thickness	pkg/10
<b>12814-CU</b>	2x1mm open area on Cu support, 50nm film thickness	pkg/10
<b>12810-NI</b>	Ø1.5mm open area on Ni support, 50nm film thickness	pkg/10
<b>12812-NI</b>	Ø2.0mm open area on Ni support, 50nm film thickness	pkg/10
<b>12814-NI</b>	2x1mm open area on Ni support, 50nm film thickness	pkg/10
<b>12821-CU</b>	0.5mm area hex grid Cu support, 50nm film thickness	pkg/10
<b>12823-CU</b>	0.35 mesh grid Cu support, 50nm film thickness	pkg/10
<b>12825-CU</b>	0.3mm bar grid Cu support, 50nm film thickness	pkg/10
<b>12821-NI</b>	0.5mm area hex grid Ni support, 50nm film thickness	pkg/10
<b>12823-NI</b>	0.35mm mesh grid Ni support, 50nm film thickness	pkg/10
<b>12825-NI</b>	0.3mm bar grid Ni support, 50nm film thickness	pkg/10
<b>12830-CU</b>	Ø1.5mm open area on Cu support, 30nm film thickness	pkg/10
<b>12832-CU</b>	Ø2.0mm open area on Cu support, 30nm film thickness	pkg/10
<b>12834-CU</b>	2x1mm open area on Cu support, 30nm film thickness	pkg/10
<b>12830-NI</b>	Ø1.5mm open area on Ni support, 30nm film thickness	pkg/10
<b>12832-NI</b>	Ø2.0mm open area on Ni support, 30nm film thickness	pkg/10
<b>12834-NI</b>	2x1mm open area on Ni support, 30nm film thickness	pkg/10
<b>12841-CU</b>	0.5mm area hex grid Cu support, 30nm film thickness	pkg/10
<b>12843-CU</b>	0.35mm mesh grid Cu support, 30nm film thickness	pkg/10
<b>12845-CU</b>	0.3mm bar grid Cu support, 30nm film thickness	pkg/10
<b>12841-NI</b>	0.5mm area hex grid Ni support, 30nm film thickness	pkg/10
<b>12843-NI</b>	0.35mm mesh grid Ni support, 30nm film thickness	pkg/10
<b>12845-NI</b>	0.3mm bar grid Ni support, 30nm film thickness	pkg/10



## Substrate™ TEM Metallic Substrates

*innovative experimental nanotech TEM supports*



Substrate™ TEM substrates are ultrathin metallic support films on standard 3mm TEM grids. These metallic films are specially manufactured with a patented process (US Patent #7348570 B2, March 25,

2008) as experimental platforms and are electron transparent to allow for imaging using a TEM. The ultrathin Substrate™ TEM Substrates enable nano- and micro-fabrication directly on the substrates subsequent and imaging with a TEM without the need for extensive sample preparation. Direct nanoscale imaging without extensive TEM preparation does not require expensive thinning tools, it also saves time and it avoids introduction of preparation artifacts. Compared to the widely used carbon support films, ultrathin and electron transparent metallic films have a high surface energy and therefore more suitable for fabrication processes.

Important properties of the ultrathin Substrate™ metallic support films are:

- Electron transparent with a 2-3nm thickness
- Small features sizes do not obscure sample features
- Chemically stable (can be used for electroplating)
- Robust enough to act as substrates
- High surface energy.

They are ideally suited for use as integrated research platforms for applications as diverse as:

- Nanofabrication
- Electron-beam lithography
- Micro-contact printing
- Electrochemistry or electroplating
- Nano-crystal growth
- Carbon nano tubes
- X-ray analysis of carbon containing materials
- Surface and interface science

The Substrate™ TEM Substrates are metallic ultrathin films on a standard 3mm TEM grid. Available substrate materials are Au, Pt, Pd (2-3nm thickness) and TiOx (10-20nm thickness) on 300 and 400 mesh TEM grids. The Au, Pt and Pd substrates are deposited on gold TEM grids, the TiOx substrate is deposited on copper TEM grids; these materials have proven to be stable substrates with a small feature sizes in the support film. The TiOx substrate is more bio-compatible and can also be used for life-science applications. They are supplied in a PELCO® 160 TEM grid box in quantities of 10 and 25.

### References:

1. Allred DB, Zin MT, Hong MA, Sarikaya M, Baneyx F, Jen AKY, Schwartz DT, 2007. "Direct nanofabrication and transmission electron microscopy on a suite of easy-to-prepare ultrathin film

substrates", Thin Solid Films, 515(13):5341-5347.

2. Allred DB, Cheng A, Sarikaya M, Baneyx F, Schwarz DT, 2008. "Three-dimensional architecture of inorganic nanoarrays electrodeposited through a surface-layer protein mask", Nano Letters, 8(5):1434-1438.

3. Ominami Y, Ngo Q, Suzuki M, Austin AJ, Yang CY, Cassell AM, Li J, 2006. "Interface characteristics of vertically aligned carbon nanofibers for interconnect applications", Applied Physics Letters, 89:263114(1-3).

## TEM substrates on 400 mesh TEM grids

G400: Pitch 62µm; Hole Width 37µm; Bar Width 25µm; Transmission 37%

<b>21410-10</b>	Substrate™, 2-3nm Pt on 400 mesh Au TEM Grid	.pkg/10
<b>21410-25</b>	Substrate™, 2-3nm Pt on 400 mesh Au TEM Grid	.pkg/25
<b>21420-10</b>	Substrate™, 2-3nm Au on 400 mesh Au TEM Grid	.pkg/10
<b>21420-25</b>	Substrate™, 2-3nm Au on 400 mesh Au TEM Grid	.pkg/25
<b>21430-10</b>	Substrate™, 2-3 Pd on 400 mesh Au TEM Grid	.pkg/10
<b>21430-25</b>	Substrate™, 2-3nm Pd on 400 mesh Au TEM Grid	.pkg/25
<b>21440-10</b>	Substrate™, 10-20nm TiOx on 400 mesh Cu TEM Grid	.pkg/10
<b>21440-25</b>	Substrate™, 10-20nm TiOx on 400 mesh Cu TEM Grid	.pkg/25

## TEM substrates on 300 mesh TEM grids

G300: Pitch 83µm; Hole Width 58µm; Bar Width 25µm; Transmission 49%

<b>21310-10</b>	Substrate™, 2-3 Pt on 300 mesh Au TEM Grid	.pkg/10
<b>21310-25</b>	Substrate™, 2-3 Pt on 300 mesh Au TEM Grid	.pkg/25
<b>21320-10</b>	Substrate™, 2-3 Au on 300 mesh Au TEM Grid	.pkg/10
<b>21320-25</b>	Substrate™, 2-3 Au on 300 mesh Au TEM Grid	.pkg/25
<b>21330-10</b>	Substrate™, 2-3 Pd on 300 mesh Au TEM Grid	.pkg/10
<b>21330-25</b>	Substrate™, 2-3 Pd on 300 mesh Au TEM Grid	.pkg/25
<b>21340-10</b>	Substrate™, 10-20 TiOx on 300 mesh Cu TEM Grid	.pkg/10
<b>21340-25</b>	Substrate™, 10-20 TiOx on 300 mesh Cu TEM Grid	.pkg/25

