

PELCO® FIB GRID AND SAMPLE HOLDERS



PELCO® SMALL FIB GRID HOLDER

Based on a standard $\phi 12.7\text{mm}$ ($\frac{1}{2}$ ") pin stub. Holds up to 2 FIB grids, of the same thickness. Can also be used to safely store FIB grids with thin sections attached to them. Overall dimensions are $\phi 12.7\text{mm}$ ($\frac{1}{2}$ ") x 7.8mm (0.3mm) H w/o pin. Standard $\phi 3.2\text{mm}$ ($\frac{1}{8}$ ") pin. Philips screwdriver #0 included.

15464 PELCO® Small FIB Grid Holder, $\phi 12.7\text{mm}$, Pin each



PELCO® SINGLE OR DOUBLE 1/2" FIB SAMPLE AND GRID HOLDERS

Hold single or double FIB samples mounted on standard $\frac{1}{2}$ " (12.7mm) pin stubs for FIB milling and lift-out procedures. They also hold two FIB grids, of the same thickness, conveniently close to the sample to mount prepared TEM lamellae on the FIB grid for subsequent TEM imaging. Standard $\phi 3.2\text{mm}$ ($\frac{1}{8}$ ") pin. Philips screwdriver #0 included.

Overall dimensions of the Single Holder are 22.4 x 12.7 x 11.7mm (0.88" x 0.5" x 0.46")
Overall dimensions of the Double Holder are 36.5 x 12.7 x 11.6mm (1.44" x 0.5" x 0.46")

15467 PELCO® Single 1/2" FIB Sample and Grid Holder, Pin each

15468 PELCO® Double 1/2" FIB Sample and Grid Holder, Pin each



PELCO® MULTIPLE FIB GRID HOLDER

Larger FIB grid holder capable of holding multiple FIB grids of the same thickness. Can also be used to safely store FIB grids with thin section (lamellae) attached to them. Brass thumbscrews facilitate easy loading and unloading. Overall dimensions are 22.5 x 29 x 13.5mm ($\frac{7}{8}$ " x 1- $\frac{1}{8}$ " x $\frac{5}{8}$ "). Standard $\phi 3.2\text{mm}$ ($\frac{1}{8}$ ") pin.

15466 PELCO® Multiple FIB Grid Holder, Pin.....each

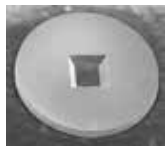


PELCO® 1" FIB SAMPLE AND GRID HOLDER

Holds an FIB sample mounted on a standard $\phi 25\text{mm}$ (1") pin stub mount for FIB milling and lift out procedures. It also holds FIB grids of the same thickness to mount the prepared lamellae on an FIB grid for subsequent TEM imaging. Brass thumbscrews facilitate easy loading and un-loading. Overall dimensions are 50 x 29 x 13.5mm (2" x 1- $\frac{1}{8}$ " x $\frac{5}{8}$ "). Standard $\phi 3.2\text{mm}$ ($\frac{1}{8}$ ") pin.

15465 PELCO® 1" FIB Sample and Grid Holder, Pin..... each

PELCO® SILICON APERTURE FRAMES



0.5 x 0.5mm



1.0 x 1.0mm



1.5 x 0.5mm

- **Single Aperture Opening Sizes:** 0.25 x 0.25mm, 0.5 x 0.5mm, 0.75 x 0.75mm, 1 x 1mm, and 0.5 x 1.5mm
- **Window Side Angle:** 35.26°
- **Aperture Frame Thickness:** 200 μm
- **Aperture Frame Diameter:** 3mm
- **Aperture Material:** Si
- **Surface:** Top side Si, back side (larger opening) has 50nm layer of Si₃N₄ for single aperture and 15nm Si₃N₄ for multiple apertures.
- **Packaging:** The PELCO® Silicon Aperture Frames are packaged under cleanroom conditions in a small vial holding 10 discs.

21545-10 0.25x0.25mm..... vial/10

21540-10 0.5x0.5mm..... vial/10

21543-10 0.75x0.75mm..... vial/10

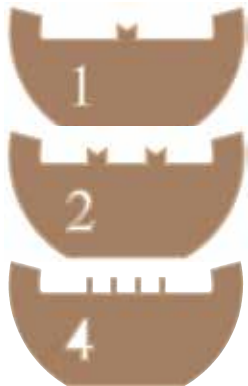
21541-10 1.0x1.0mm..... vial/10

21542-10 0.5x1.5mm..... vial/10

21548-10 2 Each 0.1x1.5mm Apertures vial/10

21549-10 2 Each 0.1x0.1mm Apertures vial/10

PELCO® FIB LIFT-OUT GRIDS AND STORAGE BOXES



PELCO® FIB LIFT-OUT TEM GRIDS

The PELCO® Lift-Out TEM Grids have been designed for accepting TEM lamellas milled out by SEM/FIB or FIB systems. The nominal diameter of the sturdy PELCO® FIB Lift-Out Grids is 3mm, with a typical thickness of 35µm (±5µm). These grids fit standard TEM holders and provide a full view of the thin sections attached to the posts. Available in copper with either one or two wider posts or four narrow posts. Use the single or dual wider post for attaching one or two lamellas or the four narrow post version for attaching a large amount of lamellas. High quality, cost effective lift-out grids.

- 10GC01 Single, Wide Post.....pkg/100
- 10GC02 2 Wide Postspkg/100
- 10GC04 4 Narrow Postspkg/100



MOLYBDENUM PELCO® FIB LIFT-OUT TEM GRIDS

The typical thickness for the molybdenum lift-out grids is 50µm +/-5µm. Use Mo where Cu can't be tolerated. Only available with two wide posts.

- 10GM02 Single, Wide Post, Molybdenum pkg/25



SILICON PELCO® FIB LIFT-OUT TEM GRIDS

The thickness is 100µm which makes these grids compatible with all standard TEM holders. Perfect half circular shape which fits nicely in the TEM grid holder. Debris-free, metal-free lift-out grids which readily bond with Pt to attach the lamellas. Easy to handle. B-doped, conductive silicon minimizes charging during sample preparation and TEM imaging.

- 21490-10 4 Wide Posts, Silicon..... pkg/10



PELCO® FIB LIFT-OUT HALF GRIDS

Made of stiff copper beryllium with a thickness of 100µm (0.004") and two dots on one side for easy identification. Diameter 3mm with a height of 1.5mm. Slot is 2mm wide x 0.5mm deep.

- 4510-Half PELCO® Half Grids for FIB applications..... pkg/25



GSB-100 STORAGE BOXES FOR FIB LIFT OUT GRIDS

GSB-100 Storage Box for 100 FIB lift out grids or storing standard 3mm TEM grids flat.

No adhesive in box. Cavity size is 3.34 x 3.34 x 1.5mm (0.13" x 0.13" x 0.06"). Complete with lid and clips. Stackable. Overall size is 55 x 51 x 10.7mm (2.16" x 2" x 0.42")

- 460-200B GSB-100 Storage Box for 100 Grids..... each
- 460-200SD Anti-Static GSB-100 Storage Box for 100 Grids..... each



PELCO® FIB GRID BOX FOR LIFT-OUT GRIDS OR HALF GRIDS

Four position grid box with lid for holding FIB lift-out grids or half grids. The PELCO® FIB Lift-Out Grid Box cavity depth is only 1.7mm, thus preventing the grids from rotating in the diamond shaped cavity. The FIB grids can be relatively easily loaded/unloaded using sharp tweezers.

- 160-54 4 Position PELCO® FIB Grid Box with Lid each