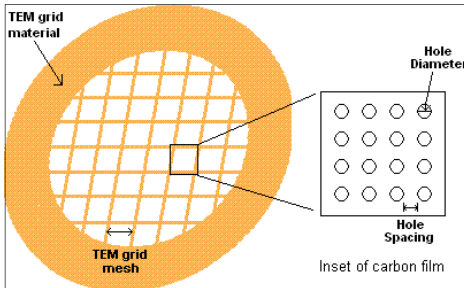


Ultra Flat Holey Carbon Grids for Cryo TEM

C-Flat™ is an ultra-flat, holey, carbon-coated TEM support grid for transmission electron microscopy (TEM). Unlike some other holey carbon films, C-flat™ is manufactured **without plastics**, so it is clean and without residue and can be used straight from the box. Made with patent pending technology, C-flat™ provides an ultra-flat surface that results in better particle dispersion and more uniform ice thickness. Patterning is done using deep-UV projection lithography, ensuring the most accurate and consistent hole shapes and sizes down to submicron features. The precise methods by which C-flat™ is manufactured eliminate artefacts such as excess carbon and edges around holes.

C-Flat™ holey carbon grids provide the ideal specimen support to achieve **high resolution data in cryo-TEM** making them an ideal choice for single particle analysis, cryo electron tomography and automated TEM analysis. C-Flat™ is a holey carbon film supported by a standard TEM grid. C-Flat™ products are fully specified by 4 parameters: the hole diameter and pitch of the holey carbon film plus the material type and mesh size of the TEM grid. **Standard support thickness is 20nm but 40nm is available on request at extra cost (about 30%)**. Add postfix /T to existing code number e.g. G285/C50 becomes G285/C50/T.

C-Flat™ is available in several standard array patterns including hole diameters/hole spacings of 0.6/2, 1/1, 1/2, 1/4, 1.2/1.3, 2/1, 2/2, 2/4, 4/2, and a multi-hole pattern. C-Flat™ is supported by your choice of a **200 mesh** or **400 mesh copper TEM grid** and sold in quantities of 25, 50, or 100. **Available on other grid materials (e.g. gold)** to special order.

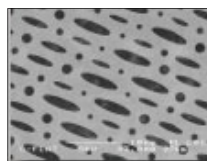


Ordering Information

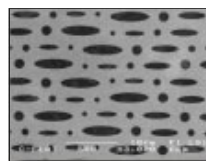
CF-MH-2C and CF-MH-4C

Multi-hole and space. The Multi-hole device has a staggered pattern of six features consisting of three circle patterns of 1µm, 1.4µm and 2µm diameter and three ellipse patterns of 1µm x 4µm, 1.4µm x 5.6µm and 2µm x 8µm.

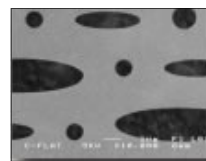
1500x (45°)



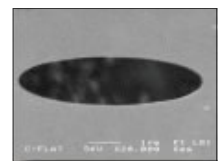
3000x



10,000x



20,000x

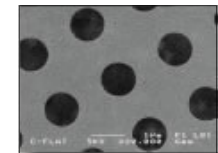
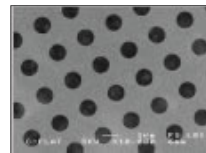
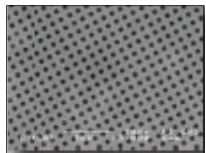
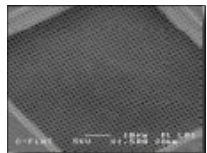


G281/C50 CF-MH-2C Multi-hole on **200** mesh Cu grid (50)
G281C100 CF-MH-2C Multi-hole on **200** mesh Cu grid (100)

G282/C50 CF-MH-4C Multi-hole on **400** mesh Cu grid (50)
G282/C100 CF-MH-4C Multi-hole on **400** mesh Cu grid (100)

CF-1/1-2C and **CF-1/1-4C**
 (200 mesh Cu) (400 mesh Cu)

1.0µm hole, 1.0µm space

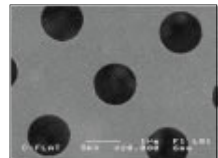
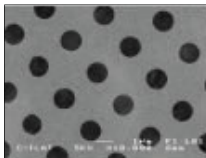
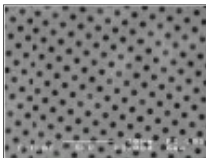
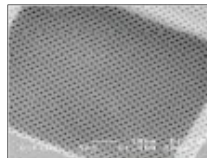


G283/C50 CF-1/1-2C 1µm hole x 1µm space on **200** mesh Cu grid (50)
G283/C100 CF-1/1-2C 1µm hole x 1µm space on **200** mesh Cu grid (100)

G284/C50 CF-1/1-4C 1µm hole x 1µm space on **400** mesh Cu grid (50)
G284/C100 CF-1/1-4C 1µm hole x 1µm space on **400** mesh Cu grid (100)

CF-1.2/1.3-2C and **CF-1.2/1.3-4C**
 (200 mesh Cu) (400 mesh Cu)

1.2µm hole, 1.3µm space



G285/C50 CF-1.2/1.3-C 1.2µm hole x 1.3µm space on **200** mesh Cu grid (50) **G286/C50** CF-1.2/1.3-4C 1.2µm hole x 1.3µm space on **400** mesh Cu grid (50)
G285/C100 CF-1.2/1.3-C 1.2µm hole x 1.3µm space on **200** mesh Cu grid (100) **G286/C100** CF-1.2/1.3-4C 1.2µm hole x 1.3µm space on **400** mesh Cu grid (100)

CF-2/0.5-2C and **CF-2/0.5-4C** (No Images)
 (200 mesh Cu) (400 mesh Cu)

2.0µm hole, 0.5µm space

G287/C50 CF-2/0.5-2C 2µm hole x 0.5µm space on **200** mesh Cu grid (50) **G288/C50** CF-2/0.5-4C 2µm hole x 0.5µm space on **400** mesh Cu grid (50)
G287/C100 CF-2/0.5-2C 2µm hole x 0.5µm space on **200** mesh Cu grid (100) **G288C/100** CF-2/0.5-4C 2µm hole x 0.5µm space on **400** mesh Cu grid (100)

Images show C-Flat™ mounted on a stub using carbon tape and imaged with a Field Emission Scanning Electron Microscope

C-Flat™ Ultra Flat Holey Carbon Grids

C-Flat™ is a trademark of Protochips, Inc. All rights reserved

1500x (45°)

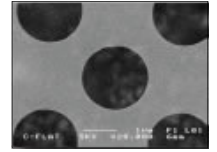
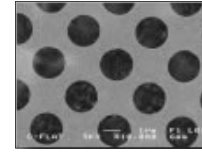
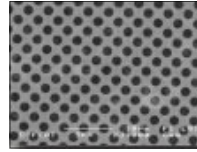
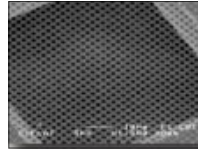
3000x

10,000x

20,000x

CF-2/1-2C and **CF-2/1-4C**
(200 mesh Cu) (400 mesh Cu)

2.0µm hole, 1.0µm space

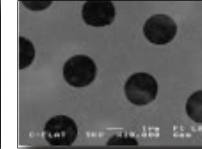
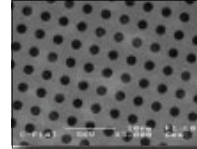
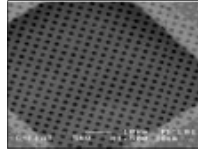


G289/C50 CF-2/1-2C 2µm hole x 1µm space on **200** mesh Cu grid (50)
G289/C100 CF-2/1-2C 2µm hole x 1µm space on **200** mesh Cu grid (100)

G290/C25 CF-2/1-4C 2µm hole x 1µm space on **400** mesh Cu grid (50)
G290/C100 CF-2/1-4C 2µm hole x 1µm space on **400** mesh Cu grid (100)

CF-2/2-2C and **CF-2/2-4C**
(200 mesh Cu) (400 mesh Cu)

2.0µm hole, 2.0µm space

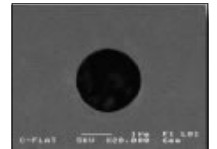
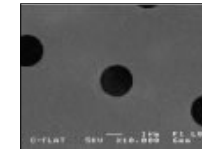
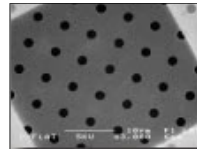
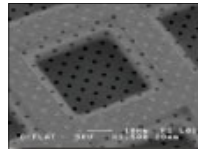


G291/C50 CF-2/2-2C 2µm hole x 2µm space on **200** mesh Cu grid (50)
G291/C100 CF-2/2-2C 2µm hole x 2µm space on **200** mesh Cu grid (100)

G292/C50 CF-2/2-4C 2µm hole x 2µm space on **400** mesh Cu grid (50)
G292/C100 CF-2/2-4C 2µm hole x 2µm space on **400** mesh Cu grid (100)

CF-2/4-2C and **CF-2/4-4C**
(200 mesh Cu) (400 mesh Cu)

2.0µm hole, 4.0µm space



G293/C50 CF-2/4-2C 2µm hole x 4µm space on **200** mesh Cu grid (50)
G293/C100 CF-2/4-2C 2µm hole x 4µm space on **200** mesh Cu grid (100)

G294/C50 CF-2/4-4C 2µm hole x 4µm space on **400** mesh Cu grid (50)
G294/C100 CF-2/4-4C 2µm hole x 4µm space on **400** mesh Cu grid (100)

CF-4/1-2C and **CF-4/1-4C**
(200 mesh Cu) (400 mesh Cu)

No images

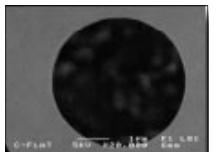
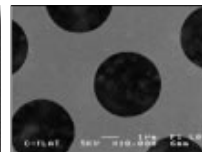
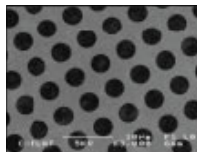
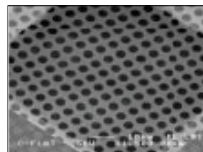
4.0µm hole, 1.0µm space

G295/C50 CF-4/1-2C 4µm hole x 1µm space on **200** mesh Cu grid (50)
G295/C100 CF-4/1-2C 4µm hole x 1µm space on **200** mesh Cu grid (100)

G296/C50 CF-4/1-4C 4µm hole x 1µm space on **400** mesh Cu grid (50)
G296/C100 CF-4/1-4C 4µm hole x 1µm space on **400** mesh Cu grid (100)

CF-4/2-2C and **CF-4/2-4C**
(200 mesh Cu) (400 mesh Cu)

4.0µm hole, 2.0µm space



G297/C50 CF-4/2-2C 4µm hole x 2µm space on **200** mesh Cu grid (50)
G297/C100 CF-4/2-2C 4µm hole x 2µm space on **200** mesh Cu grid (100)

G298/C50 CF-4/2-4C 4µm hole x 2µm space on **400** mesh Cu grid (50)
G298/C100 CF-4/2-4C 4µm hole x 2µm space on **400** mesh Cu grid (100)

Quantifoil® Holey Carbon Films

QUANTIFOIL® holey carbon films are produced by a semiconductor lithographic process. They are available with different hole sizes, shapes and arrangements. Researchers who would like to try out different types of QUANTIFOIL® holey films in order to find out which one meets their requirements best, can order our MixBox. QUANTIFOIL® R 1/4 may be preferred over R 1.2/1.3 (see below), when an increased tolerance with respect to the position of beam and a larger beam diameter are desired, such as in the case with automated image acquisition. QUANTIFOIL® provide a high percentage of open area in addition to minimising total specimen thickness. The thickness of the foil is about 20nm, although only 10 nm of carbon is evaporated onto the plastic. The surface properties of QUANTIFOIL® holey carbon support film, especially the wetting properties, may have to be adapted according to one's particular requirements. Untreated ageing QUANTIFOIL® tends to be hydrophobic. The foil can be made hydrophilic by glow discharging in residual air or by metal coating. QUANTIFOIL® grids are packaged with their **coated** sides toward the **centre** of the grid box. Holey films with new geometric parameters can be designed. In addition, they can be delivered with coatings other than carbon that can be deposited by vacuum evaporation.

QUANTIFOIL® with **circular** holes is mainly used in cryo-EM. The roundness of the holes is advantageous for the formation of an ice layer of constant thickness. The hole size that is chosen depends on the magnification used and on whether or not one wishes to include a support film in the image. Assessment of the image quality is easier when foil is included in the picture as the power spectrum of a foil is stronger than that of unsupported ice. **For those customers unsure of which Quantifoil® to use please try our MixBox .**

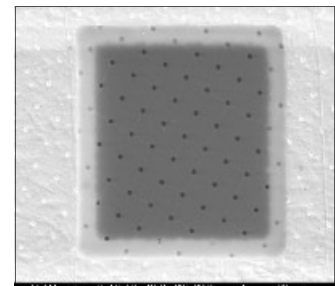
Quantifoil® with Round Holes on Copper, Nickel & Gold Grids 200, 300 & 400 Mesh and in 50 or 100 pack sizes

Quantifoil R 0.6/1

G299/2C/50	Quantifoil 0.6µm dia x 1.0µm 200 Mesh <i>Cu</i> 50 pack	G299/3C/50	Quantifoil 0.6µm dia x 1.0µm 300 Mesh <i>Cu</i> 50 pack
G299/2C/100	Quantifoil 0.6µm dia x 1.0µm 200 Mesh <i>Cu</i> 100 pack	G299/3C/100	Quantifoil 0.6µm dia x 1.0µm 300 Mesh <i>Cu</i> 100 pck
G299/2N/50	Quantifoil 0.6µm dia x 1.0µm 200 Mesh <i>Ni</i> 50 pack	G299/3N/50	Quantifoil 0.6µm dia x 1.0µm 300 Mesh <i>Ni</i> 50 pack
G299/2N/100	Quantifoil 0.6µm dia x 1.0µm 200 Mesh <i>Ni</i> 100 pack	G299/3N/100	Quantifoil 0.6µm dia x 1.0µm 300 Mesh <i>Ni</i> 100 pck
G299/2G/50	Quantifoil 0.6µm dia x 1.0µm 200 Mesh <i>Au</i> 50 pack	G299/3G/50	Quantifoil 0.6µm dia x 1.0µm 300 Mesh <i>Au</i> 50 pack
G299/2G/100	Quantifoil 0.6µm dia x 1.0µm 200 Mesh <i>Au</i> 100 pack	G299/3G/100	Quantifoil 0.6µm dia x 1.0µm 300 Mesh <i>Au</i> 100 pck

G299/4C/50	Quantifoil 0.6µm dia x 1.0µm 400 Mesh <i>Cu</i> 50 pack
G299/4C/100	Quantifoil 0.6µm dia x 1.0µm 400 Mesh <i>Cu</i> 100 pack
G299/4N/50	Quantifoil 0.6µm dia x 1.0µm 400 Mesh <i>Ni</i> 50 pack
G299/4N/100	Quantifoil 0.6µm dia x 1.0µm 400 Mesh <i>Ni</i> 100 pack
G299/4G/50	Quantifoil 0.6µm dia x 1.0µm 400 Mesh <i>Au</i> 50 pack
G299/4G/100	Quantifoil 0.6µm dia x 1.0µm 400 Mesh <i>Au</i> 100 pack

Quantifoil® Holey Carbon
Films with **0.6µm holes**
separated by
1µm spaces

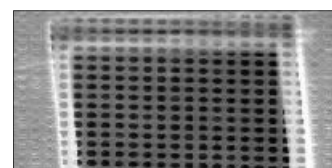


Quantifoil R 1.2/1.3

G300/2C/50	Quantifoil 1.2µm dia x 1.3µm 200 Mesh <i>Cu</i> 50 pack	G300/3C/50	Quantifoil 1.2µm dia x 1.3µm 300 Mesh <i>Cu</i> 50 pack
G300/2C/100	Quantifoil 1.2µm dia x 1.3µm 200 Mesh <i>Cu</i> 100 pack	G300/3C/100	Quantifoil 1.2µm dia x 1.3µm 300 Mesh <i>Cu</i> 100 pck
G300/2N/50	Quantifoil 1.2µm dia x 1.3µm 200 Mesh <i>Ni</i> 50 pack	G300/3N/50	Quantifoil 1.2µm dia x 1.3µm 300 Mesh <i>Ni</i> 50 pack
G300/2N/100	Quantifoil 1.2µm dia x 1.3µm 200 Mesh <i>Ni</i> 100 pack	G300/3N/100	Quantifoil 1.2µm dia x 1.3µm 300 Mesh <i>Ni</i> 100 pck
G300/2G/50	Quantifoil 1.2µm dia x 1.3µm 200 Mesh <i>Au</i> 50 pack	G300/3G/50	Quantifoil 1.2µm dia x 1.3µm 300 Mesh <i>Au</i> 50 pack
G300/2G/100	Quantifoil 1.2µm dia x 1.3µm 200 Mesh <i>Au</i> 100 pack	G300/3G/100	Quantifoil 1.2µm dia x 1.3µm 300 Mesh <i>Au</i> 100 pck

G300/4C/50	Quantifoil 1.2µm dia x 1.3µm 400 Mesh <i>Cu</i> 50 pack
G300/4C/100	Quantifoil 1.2µm dia x 1.3µm 400 Mesh <i>Cu</i> 100 pck
G300/4N/50	Quantifoil 1.2µm dia x 1.3µm 400 Mesh <i>Ni</i> 50 pack
G300/4N/100	Quantifoil 1.2µm dia x 1.3µm 400 Mesh <i>Ni</i> 100 pck
G300/4G/50	Quantifoil 1.2µm dia x 1.3µm 400 Mesh <i>Au</i> 50 pack
G300/4G/100	Quantifoil 1.2µm dia x 1.3µm 400 Mesh <i>Au</i> 100 pck

Quantifoil® Holey Carbon
Films with **1.2µm holes**
separated by
1.3µm spaces



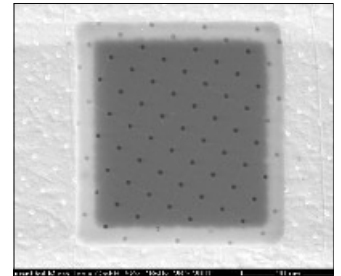
Quantifoil R 1/4

G301/2C/50 Quantifoil 1µm dia x 4µm **200** Mesh *Cu* 50 pack
G301/2C/100 Quantifoil 1µm dia x 4µm **200** Mesh *Cu* 100 pack
G301/2N/50 Quantifoil 1µm dia x 4µm **200** Mesh *Ni* 50 pack
G301/2N/100 Quantifoil 1µm dia x 4µm **200** Mesh *Ni* 100 pack
G301/2G/50 Quantifoil 1µm dia x 4µm **200** Mesh *Au* 50 pack
G301/2G/100 Quantifoil 1µm dia x 4µm **200** Mesh *Au* 100 pack

G301/3C/50 Quantifoil 1µm dia x 4µm **300** Mesh *Cu* 50 pack
G301/3C/100 Quantifoil 1µm dia x 4µm **300** Mesh *Cu* 100 pack
G301/3N/50 Quantifoil 1µm dia x 4µm **300** Mesh *Ni* 50 pack
G301/3N/100 Quantifoil 1µm dia x 4µm **300** Mesh *Ni* 100 pack
G301/3G/50 Quantifoil 1µm dia x 4µm **300** Mesh *Au* 50 pack
G301/3G/100 Quantifoil 1µm dia x 4µm **300** Mesh *Au* 100 pack

G301/4C/50 Quantifoil 1µm dia x 4µm **400** Mesh *Cu* 50 pack
G301/4C/100 Quantifoil 1µm dia x 4µm **400** Mesh *Cu* 100 pack
G301/4N/50 Quantifoil 1µm dia x 4µm **400** Mesh *Ni* 50 pack
G301/4N/100 Quantifoil 1µm dia x 4µm **400** Mesh *Ni* 100 pack
G301/4G/50 Quantifoil 1µm dia x 4µm **400** Mesh *Au* 50 pack
G301/4G/100 Quantifoil 1µm dia x 4µm **400** Mesh *Au* 100 pack

Quantifoil® Holey Carbon
Films with **1µm holes**
separated by
4µm spaces



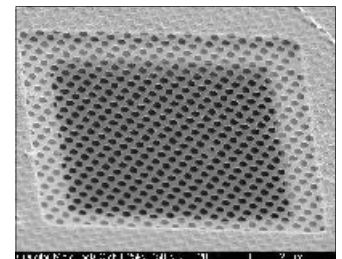
Quantifoil R 2/1

G310/2C/50 Quantifoil 2µm dia x 1µm **200** mesh *Cu* 50 pack
G310/2C/100 Quantifoil 2µm dia x 1µm **200** mesh *Cu* 100 pack
G310/2N/50 Quantifoil 2µm dia x 1µm **200** mesh *Ni* 50 pack
G310/2N/100 Quantifoil 2µm dia x 1µm **200** mesh *Ni* 100 pack
G310/2G/50 Quantifoil 2µm dia x 1µm **200** mesh *Au* 50 pack
G310/2G/100 Quantifoil 2µm dia x 1µm **200** mesh *Au* 100 pack

G310/3C/50 Quantifoil 2µm dia x 1µm **300** mesh *Cu* 50 pack
G310/3C/100 Quantifoil 2µm dia x 1µm **300** mesh *Cu* 100 pack
G310/3N/50 Quantifoil 2µm dia x 1µm **300** mesh *Ni* 50 pack
G310/3N/100 Quantifoil 2µm dia x 1µm **300** mesh *Ni* 100 pack
G310/3G/50 Quantifoil 2µm dia x 1µm **300** mesh *Au* 50 pack
G310/3G/100 Quantifoil 2µm dia x 1µm **300** mesh *Au* 100 pack

G310/4C/50 Quantifoil 2µm dia x 1µm **400** mesh *Cu* 50 pack
G310/4C/100 Quantifoil 2µm dia x 1µm **400** mesh *Cu* 100 pack
G310/4N/50 Quantifoil 2µm dia x 1µm **400** mesh *Ni* 50 pack
G310/4N/100 Quantifoil 2µm dia x 1µm **400** mesh *Ni* 100 pack
G310/4G/50 Quantifoil 2µm dia x 1µm **400** mesh *Au* 50 pack
G310/4G/100 Quantifoil 2µm dia x 1µm **400** mesh *Au* 100 pack

Quantifoil® Holey Carbon
Films with **2µm holes**
separated by
1µm spaces



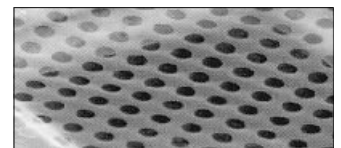
Quantifoil R 2/2

G302/2C/50 Quantifoil 2µm dia x 2µm **200** Mesh *Cu* 50 pack
G302/2C/100 Quantifoil 2µm dia x 2µm **200** Mesh *Cu* 100 pack
G302/2N/50 Quantifoil 2µm dia x 2µm **200** Mesh *Ni* 50 pack
G302/2N/100 Quantifoil 2µm dia x 2µm **200** Mesh *Ni* 100 pack
G302/2G/50 Quantifoil 2µm dia x 2µm **200** Mesh *Au* 50 pack
G302/2G/100 Quantifoil 2µm dia x 2µm **200** Mesh *Au* 100 pack

G302/3C/50 Quantifoil 2µm dia x 2µm **300** Mesh *Cu* 50 pack
G302/3C/100 Quantifoil 2µm dia x 2µm **300** Mesh *Cu* 100 pack
G302/3N/50 Quantifoil 2µm dia x 2µm **300** Mesh *Ni* 50 pack
G302/3N/100 Quantifoil 2µm dia x 2µm **300** Mesh *Ni* 100 pack
G302/3G/50 Quantifoil 2µm dia x 2µm **300** Mesh *Au* 50 pack
G302/3G/100 Quantifoil 2µm dia x 2µm **300** Mesh *Au* 100 pack

G302/4C/50 Quantifoil 2µm dia x 2µm **400** Mesh *Cu* 50 pack
G302/4C/100 Quantifoil 2µm dia x 2µm **400** Mesh *Cu* 100 pack
G302/4N/50 Quantifoil 2µm dia x 2µm **400** Mesh *Ni* 50 pack
G302/4N/100 Quantifoil 2µm dia x 2µm **400** Mesh *Ni* 100 pack
G302/4G/50 Quantifoil 2µm dia x 2µm **400** Mesh *Au* 50 pack
G302/4G/100 Quantifoil 2µm dia x 2µm **400** Mesh *Au* 100 pck

Quantifoil® Holey Carbon
Films with **2µm holes**
separated by
2µm spaces



Please ask for our data sheet

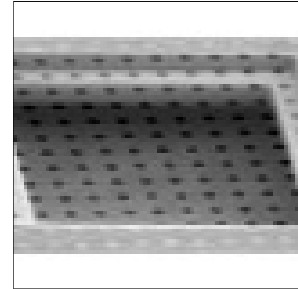
Quantifoil R 2/4

G303/2C/50 Quantifoil 2 μ m dia x 4 μ m **200** Mesh *Cu* 50 pack
G303/2C/100 Quantifoil 2 μ m dia x 4 μ m **200** Mesh *Cu* 100 pack
G303/2N/50 Quantifoil 2 μ m dia x 4 μ m **200** Mesh *Ni* 50 pack
G303/2N/100 Quantifoil 2 μ m dia x 4 μ m **200** Mesh *Ni* 100 pack
G303/2G/50 Quantifoil 2 μ m dia x 4 μ m **200** Mesh *Au* 50 pack
G303/2G/100 Quantifoil 2 μ m dia x 4 μ m **200** Mesh *Au* 100 pack

G303/4C/50 Quantifoil 2 μ m dia x 4 μ m **400** Mesh *Cu* 50 pack
G303/4C/100 Quantifoil 2 μ m dia x 4 μ m **400** Mesh *Cu* 100 pack
G303/4N/50 Quantifoil 2 μ m dia x 4 μ m **400** Mesh *Ni* 50 pack
G303/4N/100 Quantifoil 2 μ m dia x 4 μ m **400** Mesh *Ni* 100 pack
G303/4G/50 Quantifoil 2 μ m dia x 4 μ m **400** Mesh *Au* 50 pack
G303/4G/100 Quantifoil 2 μ m dia x 4 μ m **400** Mesh *Au* 100 pack

G303/3C/50 Quantifoil 2 μ m dia x 4 μ m **300** Mesh *Cu* 50 pack
G303/3C/100 Quantifoil 2 μ m dia x 4 μ m **300** Mesh *Cu* 100 pack
G303/3N/50 Quantifoil 2 μ m dia x 4 μ m **300** Mesh *Ni* 50 pack
G303/3N/100 Quantifoil 2 μ m dia x 4 μ m **300** Mesh *Ni* 100 pack
G303/3G/50 Quantifoil 2 μ m dia x 4 μ m **300** Mesh *Au* 50 pack
G303/3G/100 Quantifoil 2 μ m dia x 4 μ m **300** Mesh *Au* 100 pack

Quantifoil® Holey Carbon
 Films with **2 μ m holes**
 separated by
4 μ m spaces



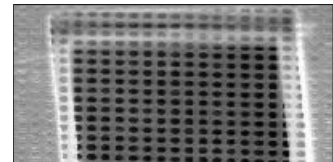
Quantifoil R 3.5/1

G304/2C/50 Quantifoil 3.5 μ m dia x 1 μ m **200** Mesh *Cu* 50 pack
G304/2C/100 Quantifoil 3.5 μ m dia x 1 μ m **200** Mesh *Cu* 100 pack
G304/2N/50 Quantifoil 3.5 μ m dia x 1 μ m **200** Mesh *Ni* 50 pack
G304/2N/100 Quantifoil 3.5 μ m dia x 1 μ m **200** Mesh *Ni* 100 pack
G304/2G/50 Quantifoil 3.5 μ m dia x 1 μ m **200** Mesh *Au* 50 pack
G304/2G/100 Quantifoil 3.5 μ m dia x 1 μ m **200** Mesh *Au* 100 pack

G304/4C/50 Quantifoil 3.5 μ m dia x 1 μ m **400** Mesh *Cu* 50 pack
G304/4C/100 Quantifoil 3.5 μ m dia x 1 μ m **400** Mesh *Cu* 100 pck
G304/4N/50 Quantifoil 3.5 μ m dia x 1 μ m **400** Mesh *Ni* 50 pack
G304/4N/100 Quantifoil 3.5 μ m dia x 1 μ m **400** Mesh *Ni* 100 pck
G304/4G/50 Quantifoil 3.5 μ m dia x 1 μ m **400** Mesh *Au* 50 pack
G304/4G/100 Quantifoil 3.5 μ m dia x 1 μ m **400** Mesh *Au* 100 pck

G304/3C/50 Quantifoil 3.5 μ m dia x 1 μ m **300** Mesh *Cu* 50 pack
G304/3C/100 Quantifoil 3.5 μ m dia x 1 μ m **300** Mesh *Cu* 100 pck
G304/3N/50 Quantifoil 3.5 μ m dia x 1 μ m **300** Mesh *Ni* 50 pack
G304/3N/100 Quantifoil 3.5 μ m dia x 1 μ m **300** Mesh *Ni* 100 pck
G304/3G/50 Quantifoil 3.5 μ m dia x 1 μ m **300** Mesh *Au* 50 pack
G304/3G/100 Quantifoil 3.5 μ m dia x 1 μ m **300** Mesh *Au* 100 pck

Quantifoil® Holey Carbon
 Films with **3.5 μ m holes**
 separated by
1 μ m spaces



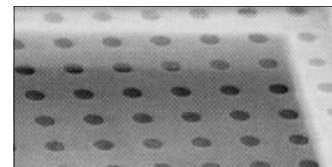
Quantifoil R 5/20

G305/2C/50 Quantifoil 5 μ m dia x 20 μ m **200** Mesh *Cu* 50 pack
G305/2C/100 Quantifoil 5 μ m dia x 20 μ m **200** Mesh *Cu* 100 pack
G305/2N/50 Quantifoil 5 μ m dia x 20 μ m **200** Mesh *Ni* 50 pack
G305/2N/100 Quantifoil 5 μ m dia x 20 μ m **200** Mesh *Ni* 100 pack
G305/2G/50 Quantifoil 5 μ m dia x 20 μ m **200** Mesh *Au* 50 pack
G305/2G/100 Quantifoil 5 μ m dia x 20 μ m **200** Mesh *Au* 100 pack

G305/4C/50 Quantifoil 5 μ m dia x 20 μ m **400** Mesh *Cu* 50 pack
G305/4C/100 Quantifoil 5 μ m dia x 20 μ m **400** Mesh *Cu* 100 pck
G305/4N/50 Quantifoil 5 μ m dia x 20 μ m **400** Mesh *Ni* 50 pack
G305/4N/100 Quantifoil 5 μ m dia x 20 μ m **400** Mesh *Ni* 100 pck
G305/4G/50 Quantifoil 5 μ m dia x 20 μ m **400** Mesh *Au* 50 pack
G305/4G/100 Quantifoil 5 μ m dia x 20 μ m **400** Mesh *Au* 100 pck

G305/3C/50 Quantifoil 5 μ m dia x 20 μ m **300** Mesh *Cu* 50 pack
G305/3C/100 Quantifoil 5 μ m dia x 20 μ m **300** Mesh *Cu* 100 pck
G305/3N/50 Quantifoil 5 μ m dia x 20 μ m **300** Mesh *Ni* 50 pack
G305/3N/100 Quantifoil 5 μ m dia x 20 μ m **300** Mesh *Ni* 100 pck
G305/3G/50 Quantifoil 5 μ m dia x 20 μ m **300** Mesh *Au* 50 pack
G305/3G/100 Quantifoil 5 μ m dia x 20 μ m **300** Mesh *Au* 100 pck

Quantifoil® Holey Carbon
 Films with **5 μ m holes**
 separated by
20 μ m spaces



Quantifoil® with **square holes** and **narrow bars** can be used in TEM to support a thin carbon film which by itself is too fragile to span a grid square. Alternatively, this holey film can directly support an object that is larger than the holes.

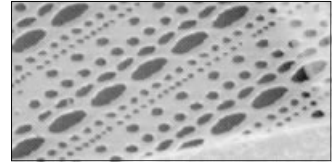
Quantifoil Multi A

G306/2C/50 Quantifoil Multi A **200** Mesh *Cu* 50 pack
G306/2C/100 Quantifoil Multi A **200** Mesh *Cu* 100 pack
G306/2N/50 Quantifoil Multi A **200** Mesh *Ni* 50 pack
G306/2N/100 Quantifoil Multi A **200** Mesh *Ni* 100 pack

G306/3C/50 Quantifoil Multi A **300** Mesh *Cu* 50 pack
G306/3C/100 Quantifoil Multi A **300** Mesh *Cu* 100 pck
G306/3N/50 Quantifoil Multi A **300** Mesh *Ni* 50 pack
G306/3N/100 Quantifoil Multi A **300** Mesh *Ni* 100 pack

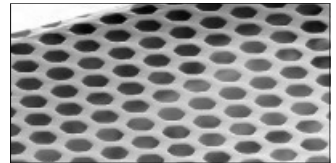
G306/4C/50 Quantifoil Multi A **400** Mesh *Cu* 50 pack
G306/4C/100 Quantifoil Multi A **400** Mesh *Cu* 100 pck
G306/4N/50 Quantifoil Multi A **400** Mesh *Ni* 50 pack
G306/4N/100 Quantifoil Multi A **400** Mesh *Ni* 100 pack

Quantifoil® Holey Carbon
 Films with
different hole sizes
 and **patterns**



Quantifoil Hex15

G307/Hex15/C/50 Quantifoil hexagonal mesh on 0.5 x 2mm slot grids *Cu* 50 pack
G307/Hex15/C/100 Quantifoil hexagonal mesh on 0.5 x 2mm slot grids *Cu* 100 pack

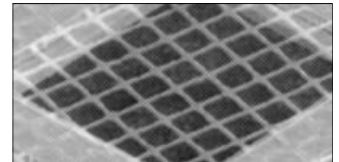


Quantifoil® **Hexagonal** on slot grid 0.5 x 2mm for **section support** giving greatest open area.
Hole size 26µm Bar width 15µm repeat distance 41µm

Quantifoil® with Square Holes on copper, nickel and gold grids

Quantifoil S 7/2

G308/C/72/50 Quantifoil S 7/2 square **200** mesh 7 x 7µm holes *Cu* 50 pack
G308/C/72/100 Quantifoil S 7/2 square **200** mesh 7 x 7µm holes *Cu* 100 pack
G308/N/72/50 Quantifoil S 7/2 square **200** mesh 7 x 7µm holes *Ni* 50 pack
G308/N/72/100 Quantifoil S 7/2 square **200** mesh 7 x 7µm holes *Ni* 100 pack
G308/G/72/50 Quantifoil S 7/2 square **200** mesh 7 x 7µm holes *Au* 50 pack
G308/G/72/100 Quantifoil S 7/2 square **200** mesh 7 x 7µm holes *Au* 100 pck
G343/C/72/50 Quantifoil S7/2 square **300** mesh 7 x 7µm holes *Cu* 50 pack
G343/C/72/100 Quantifoil S7/2 square **300** mesh 7 x 7µm holes *Cu* 100 pack
G343/N/72/50 Quantifoil S7/2 square **300** mesh 7 x 7µm holes *Ni* 50 pack
G343/N/72/100 Quantifoil S7/2 square **300** mesh 7 x 7µm holes *Ni* 100 pack
G343/G/72/50 Quantifoil S7/2 square **300** mesh 7 x 7µm holes *Au* 50 pack
G343/G/72/100 Quantifoil S7/2 square **300** mesh 7 x 7µm holes *Au* 100 pack
G344/C/72/50 Quantifoil S7/2 square **400** mesh 7 x 7µm holes *Cu* 50 pack
G344/C/72/100 Quantifoil S7/2 square **400** mesh 7 x 7µm holes *Cu* 100 pack
G344/N/72/50 Quantifoil S7/2 square **400** mesh 7 x 7µm holes *Ni* 50 pack
G344/N/72/100 Quantifoil S7/2 square **400** mesh 7 x 7µm holes *Ni* 100 pack
G344/G/72/50 Quantifoil S7/2 square **400** mesh 7 x 7µm holes *Au* 50 pack
G344/G/72/100 Quantifoil S7/2 square **400** mesh 7 x 7µm holes *Au* 100 pack



Quantifoil® MixBox

The MixBox contains 5 pieces each of the following on 300 mesh copper grids
R 1.2/1.3, R 2/1, R 3.5/1, S 7/2, Multi A

G309 Quantifoil® MixBox

UltrAuFoil™ Holey Carbon Films

These newly developed ultra stable gold supports for electron cryomicroscopy will reduce the movement of frozen specimens during imaging. This improves image contrast and quality leading to better 3D reconstructions from less data. During imaging at cryo-temperatures, traditional carbon supports move, particularly at the beginning of irradiation. This movement blurs images and makes it difficult to determine the structures of small and challenging molecules.

Thickness of gold foil ≈ 500 Å

Structure of gold foil - regular square array of micrometer-sized circular holes, available geometry as below
 TEM Grid is gold 300 mesh

G253 UltrAuFoil holey gold foil R 0.6/1 (0.6µm hole) on 300 mesh gold grid pack of 50
G254 UltrAuFoil holey gold foil R 1.2/1.3 (1.2µm hole) on 300 mesh gold grid pack of 50
G255 UltrAuFoil holey gold foil R 2/2 (2µm hole) on 300 mesh gold grid pack of 50
 (others to special order, please ask)

