

ULTRATHIN CARBON FILM SUPPORTED BY A LACEY CARBON FILM ON A 400 MESH COPPER GRID

Product No. 01824

The continuous ultrathin carbon film on lacey film allows for the thinnest carbon support film that still has adequate strength to withstand specimen preparation.

The film (less than 3nm thick) lies across a carbon lacey film supported by a 400 mesh copper grid. The size of the holes in the lacey film differ widely from batch to batch but are generally in the range of $\frac{1}{4} \mu\text{m}$ to $5\mu\text{m}$, which gives the equivalent support of at least 6000 mesh grid.

Specimen material lying over the covered holes can be imaged in the TEM with practically no interference from the carbon film supporting it. This product is ideal for looking at Nanotubes, virus particles and other small particulate material

Specimen suspensions should be applied to the lighter copper-colored side of the grid for more even spreading.

NOTE: The production of this support film is quite elaborate and involves the application and removal at various points of plastic substrates on which the carbon substrates are formed. In order to remove the plastic the grids are placed on wire mesh. At those points the support film may become ruptured. Consequently not all of the holes of the copper grids are covered with support film though in general there is better than 80% coverage.

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