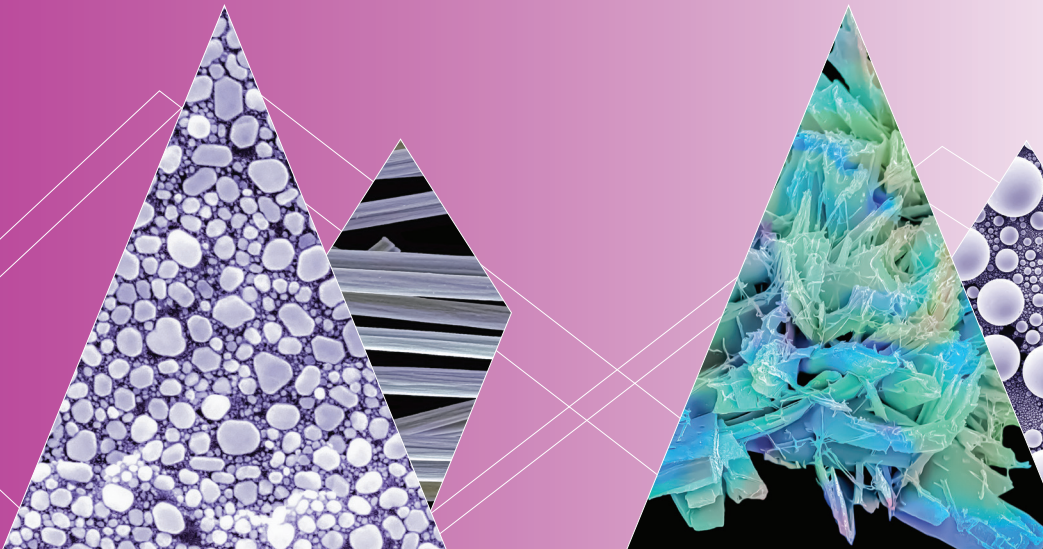


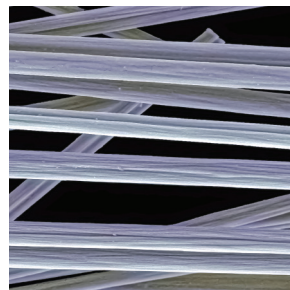
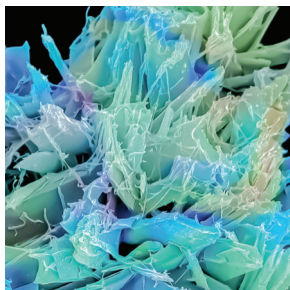
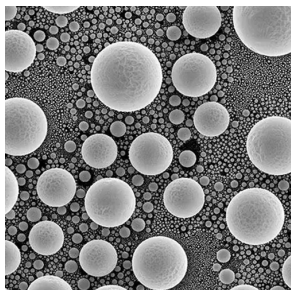


A CALIBRE SCIENTIFIC COMPANY

Manufactured by Agar Scientific

Consumables, accessories and
sample preparation equipment
supporting all forms of microscopy.



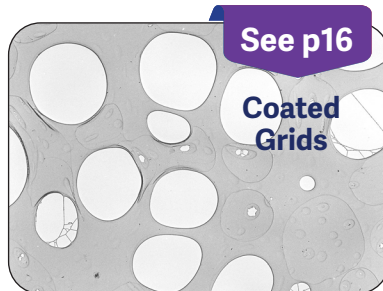
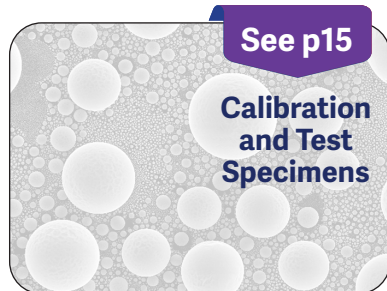


Manufactured by Agar Scientific

A leading international supplier of scientific instruments and accessories for over 40 years, Agar Scientific specialises in consumables and equipment supporting all forms of microscopy.

In our production labs based in Stansted, Essex, we produce a wide portfolio of products to support you in your microscopy applications, from chemicals to TEM grids.

Please contact your Regional Account Manager to discuss your requirements and to request a quotation.



UA-Zero® EM Stain

Trouble-free solution developed as a direct substitute for Uranyl Acetate.

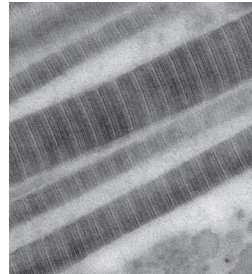
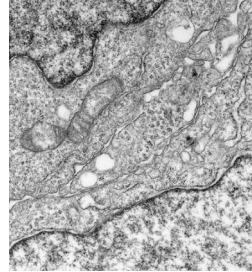
A patented solution, which does not contain any radioactive material and is non toxic. UA-Zero can be used as a direct replacement for Uranyl Acetate with no changes to standard user protocols, and delivers high contrast imaging.

Supplied in a unique dropper bottle, which should be stored long-term in the lab fridge at around 4 °C. For daily use, the sealed bottle can be stored in normal laboratory conditions away from direct sunlight.

UA-Zero has been independently tested and verified to work very well for various protocols that specify Uranyl Acetate as a staining solution for TEM sample preparation in life science.

UA-Zero is easy to use; to stain the sample on a TEM grid with support film, only a few simple steps are required before drying.

- Non-radioactive, Uranium free
- No handling, storage or disposal restrictions
- No additional processing required
- Independently tested and verified



| Cat. No. | Product Description | PK |
|----------|--------------------------------|----|
| AGR1000 | UA-Zero EM Stain, 25 ml bottle | 1 |



Pre-mixed Buffer Solutions

Ready-to-use buffers to maintain pH during fixation. Pre-mixed solutions for convenience and to help maintain quality processed. Available as Sodium Cacodylate Buffer 0.2M and Glutaraldehyde in 0.1M Phosphate Buffer, with customisable sizes, pH level and concentration.

- Eliminates extra steps required when preparing samples
- Batch traceable
- Optimised for biological sample processing



| Cat. No. | Product Description | PK |
|----------|--|----|
| AGR1501 | Sodium Cacodylate Buffer 0.2M, pH 7.4, 500 ml | 1 |
| AGR1503 | Sodium Cacodylate Buffer 0.2M, pH 7.2, 500 ml | 1 |
| AGR1557 | Glutaraldehyde 0.625% in 0.1M Phosphate Buffer, pH 7.2, 500 ml | 1 |
| AGR1550 | Glutaraldehyde 0.625% in 0.1M Phosphate Buffer, pH 7.4, 500 ml | 1 |
| AGR1559 | Glutaraldehyde 2% in 0.1M Phosphate Buffer, pH 7.2, 500 ml | 1 |
| AGR1552 | Glutaraldehyde 2% in 0.1M Phosphate Buffer, pH 7.4, 500 ml | 1 |
| AGR1561 | Glutaraldehyde 2.5% in 0.1M Phosphate Buffer, pH 7.2, 500 ml | 1 |
| AGR1554 | Glutaraldehyde 2.5% in 0.1M Phosphate Buffer, pH 7.4, 500 ml | 1 |

Other volumes available.

London Resin Acrylic Embedding Resins

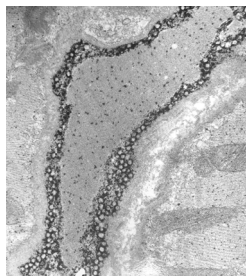
Acrylic embedding resins specifically formulated for the needs of microscopists.

Combining low viscosity, low toxicity, and ease of use these resins provide a high-quality embedding solution for a wide range of applications.



LR White

A convenient and economical pre-mixed resin, with wide ranging applications. LR White is hydrophilic and electron beam stable, making it suitable for light and electron microscopy. With appropriate fixation, the same specimen may be suitable for both LM and EM techniques.

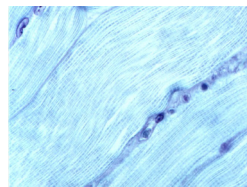


| Cat. No. | Product Description | PK |
|----------|--|----|
| AGR1282 | LR White Resin (Soft) 500 g, Catalysed | 1 |
| AGR1281 | LR White Resin (Medium) 500 g, Catalysed | 1 |
| AGR1280 | LR White Resin (Hard) 500 g, Catalysed | 1 |
| AGR1282A | LR White Resin (Soft) 500 g, Uncatalysed | 1 |
| AGR1281A | LR White Resin (Medium) 500 g, Uncatalysed | 1 |
| AGR1280A | LR White Resin (Hard) 500 g, Uncatalysed | 1 |
| AGR1281C | Catalyst for London Resin 9.9 g (required for uncatalysed versions only) | 1 |
| AGR1283 | Accelerator for London Resin 10 ml | 1 |



LR Gold

Infiltration and polymerisation at low temperatures (down to -20 °C) means LR Gold is suitable for embedding unfixed tissues. This enables enzyme histochemistry and immunocytochemistry of many fixation sensitive enzymes and epitomes to be performed on 1 - 2 µm resin sections, bringing the quality of resin histology to an area where only cryostat sections were previously available. Can also be cured by blue light.



| Cat. No. | Product Description | PK |
|----------|--|----|
| AGR1284 | LR Gold Resin 500 g | 1 |
| AGR1285 | Activator - Benzil 50 g | 1 |
| AGR1286 | Poly(vinylpyrrolidone) 100 g | 1 |
| AGR1287 | Benzoyl Peroxide (stabilised 50%) 50 g | 1 |

Histocryl Resin Kit

A conventional multi-component acrylic system offering a direct alternative to other commercial HEMA systems. This kit is cost effective, making it suitable for regular use - ideal for the histologist who recognises the benefit that high-quality resin histology can bring to their work.



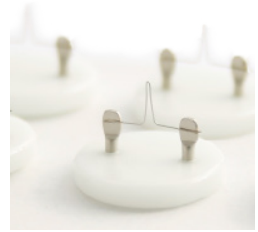
| Cat. No. | Product Description | PK |
|----------|---------------------|----|
| AGR1131 | Histocryl Resin Kit | 1 |



Tungsten Filaments for EM

Replacement tungsten filaments for Cambridge/LEO/Zeiss, AEI, TESCAN, JEOL, ISI & Phillips/FEI/Thermo Fisher instruments.

Manufactured to the highest standards, our filaments are precision made in custom engineered jigs to ensure complete accuracy of every filament to gain maximum image quality and life expectancy.



Agar Filaments for Cambridge, LEO, Zeiss and AEI

Made with specially designed jigs which ensure accuracy and reproducibility in production.

- High-ductility tungsten wire used to minimise strain
- Stress relieved by flashing in a vacuum at temperatures above the normal operating level
- Quality checked for accuracy of centring



| Cat. No. | Product Description | PK |
|-----------------|---|-----------|
| AGA054 | Agar Filaments for Cambridge/LEO/Zeiss and AEI | 10 |
| AGA054L | Agar Filaments for LEO Microscope, 0.15 mm wire | 10 |
| AGA054A | Agar Tungsten/Rhenium Filaments | 10 |



Agar Filaments for TESCAN VEGA series

Designed for use with TESCAN VEGA electron microscopes.

- Manufactured to the highest standards
- Precision made to ensure maximum image quality and life expectancy
- 100% pre-conditioned under vacuum and individually quality checked



| Cat. No. | Product Description | PK |
|----------|---------------------------------------|----|
| AGA047 | Agar Filaments for TESCAN VEGA series | 10 |

Agar Filaments for Phillips/ FEI/Thermo Fisher

Designed for use with FEI electron microscopes.

- Custom engineered jigs guarantee the accuracy of every filament
- Precision made to ensure maximum image quality and life expectancy
- 100% pre-conditioned under vacuum and individually quality checked



| Cat. No. | Product Description | PK |
|----------|------------------------|----|
| AGA086 | Agar Filaments for FEI | 10 |

Agar Filaments for JEOL (K Type)

Designed for use with JEOL K-Type electron microscopes.

- High-ductility tungsten wire used to minimise strain
- Stress relieved by flashing in a vacuum at temperatures above the normal operating level
- Quality checked for accuracy of centring



| Cat. No. | Product Description | PK |
|----------|----------------------------------|----|
| AGA054 | Agar Filaments for JEOL (K Type) | 6 |

Other Electron Microscope Filaments

Replacement filaments for Hitachi, JEOL and Zeiss electron microscopes.



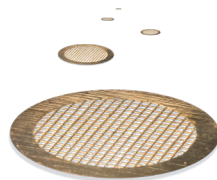
| Cat. No. | Product Description | PK |
|----------|------------------------------------|----|
| AGA042 | Filaments for Hitachi H/S/X Series | 10 |
| AGA042 | Cartridge Filaments for Hitachi | 10 |
| AGA042 | Filaments for JEOL GC Type | 12 |
| AGA042 | Filaments for Zeiss | 10 |



Athene TEM Support Grids

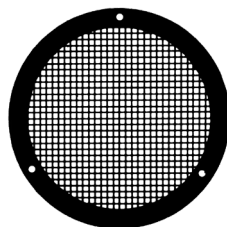
Renowned for their quality and well-defined grid bars, Athene TEM support grids have been manufactured to ensure good handling characteristics. Each grid is individually inspected before being packed. A comprehensive table of grid parameters is available on request.

- Extensive range of grids for TEM applications
- Square, hexagonal, parallel, slot and round mesh shapes
- Copper, nickel, gilded and platinised



Athene Standard Square Pattern Grids

- Square mesh shapes
- Copper, nickel, gilded and platinised
- 50, 75, 150, 200, 300 and 400 mesh
- 3.05 mm diameter

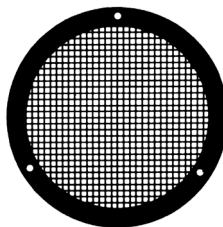


| Cat. No. | Product Description | PK |
|----------|---|-----|
| AGG202 | Athene Type 4, 200 Square Mesh TEM Grids, Copper, 3.05 mm | 100 |
| AGG203 | Athene Type 5, 300 Square Mesh TEM Grids, Copper, 3.05 mm | 100 |
| AGG204 | Athene Type 6, 400 Square Mesh TEM Grids, Copper, 3.05 mm | 100 |

Other mesh sizes and materials available.

Athene Thin Bar Grids

- High transmission, thin bar grids
- Copper, nickel, gilded and platinised
- Bar width of 10 μm
- 200, 300 or 400 mesh
- 3.05 mm diameter

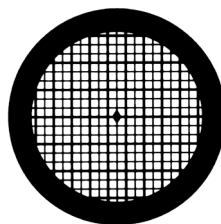


| Cat. No. | Product Description | PK |
|----------|---|-----|
| AGG2002 | Athene Type 7, 200 Mesh Thin Bar TEM Grids, Copper, 3.05 mm | 100 |
| AGG2003 | Athene Type 8, 300 Mesh Thin Bar TEM Grids, Copper, 3.05 mm | 100 |
| AGG2004 | Athene Type 9, 400 Mesh Thin Bar TEM Grids, Copper, 3.05 mm | 100 |

Other mesh sizes and materials available.

Athene Thick Bar/Thin Bar Grids

- Thick bar/thin bar grids
- Copper, nickel, gilded and platinised
- 100, 200 or 300 mesh
- 3.05 mm diameter



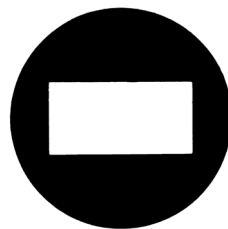
| Cat. No. | Product Description | PK |
|----------|--|-----|
| AGG205 | Athene Type 10, 100 Mesh Thick Bar/Thin Bar TEM Grids, Copper, 3.05 mm | 100 |
| AGG206 | Athene Type 11, 200 Mesh Thick Bar/Thin Bar TEM Grids, Copper, 3.05 mm | 100 |
| AGG207 | Athene Type 12, 300 Mesh Thick Bar/Thin Bar TEM Grids, Copper, 3.05 mm | 100 |

Other mesh sizes and materials available.



Athene Slot Grids

- Slot grids
- Copper, nickel, gilded and platinised
- Slot sizes range from 12.5 μm to 1000 μm
- 3.05 mm diameter



| Cat. No. | Product Description | PK |
|----------|--|-----|
| AGG220-5 | Athene 2 mm x 125 μm Slot TEM Grids, Copper, 3.05 mm | 100 |
| AGG220-6 | Athene 2 mm x 500 μm Slot TEM Grids, Copper, 3.05 mm | 100 |
| AGG220-7 | Athene 2 mm x 1000 μm Slot TEM Grids, Copper, 3.05 mm | 100 |

Other slot sizes and materials available.

Athene Multi Slot Grids

- Multiple slot grids
- Copper, nickel, gilded and platinised
- Robertson, Sjostrand and Polyslot
- 3.05 mm diameter

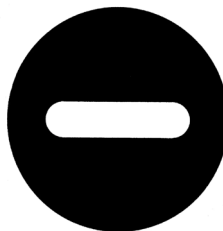


| Cat. No. | Product Description | PK |
|----------|---|-----|
| AGG218 | Athene Robertson TEM Grids, Copper, 3.05 mm | 100 |
| AGG221 | Athene Sjostrand TEM Grids, Copper, 3.05 mm | 100 |
| AGG227 | Athene Polyslot TEM Grids, Copper, 3.05 mm | 100 |

Other materials available.

Athene Thick Slot Grids

- Double thickness slot grids
- Copper, nickel, gilded and platinised
- Slot sizes: 500 μm and 1000 μm
- 3.05 mm diameter

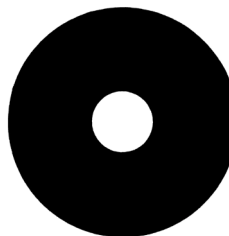


| Cat. No. | Product Description | PK |
|----------|--|-----|
| AGG220T6 | Athene Thick 2 mm x 500 μm Slot TEM Grids, Copper, 3.05 mm | 100 |
| AGG220T7 | Athene Thick 2 mm x 1000 μm Slot TEM Grids, Copper, 3.05 mm | 100 |

Other materials available.

Athene Single Hole Grids

- Single hole grids
- Copper, nickel, gilded and platinised
- Hole diameters: 100 μm , 200 μm , 375 μm , 600 μm , 800 μm , 1000 μm , 2000 μm
- 3.05 mm diameter



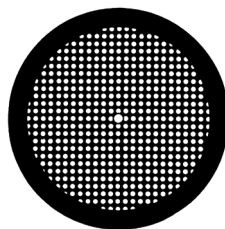
| Cat. No. | Product Description | PK |
|----------|--|-----|
| AGG225-1 | Athene 100 μm Hole TEM Grids, Copper, 3.05 mm | 100 |
| AGG225-4 | Athene 600 μm Hole TEM Grids, Copper, 3.05 mm | 100 |
| AGG225-5 | Athene 800 μm Hole TEM Grids, Copper, 3.05 mm | 100 |

Other hole sizes and materials available.



Athene Round Hole Pattern Grids

- Round hole pattern grids
- Copper, nickel, gilded and platinised
- 180, 300 and 750 mesh sizes
- 100 μm , 35 μm , 20 μm hole diameters
- 3.05 mm diameter

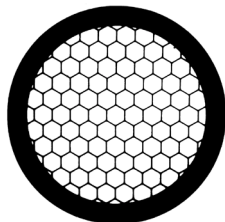


| Cat. No. | Product Description | PK |
|----------|--|-----|
| AGG219 | Athene 483 TEM Grids, Copper, 3.05 mm | 100 |
| AGG220-6 | Athene AEI TEM Grids, Copper, 3.05 mm | 100 |
| AGG220-7 | Athene R20m TEM Grids, Copper, 3.05 mm | 100 |

Other materials available.

Athene Hexagonal Mesh Grids

- Hexagonal mesh grids
- Copper, nickel, gilded and platinised
- 100 mesh
- 3.05 mm diameter



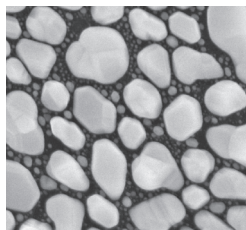
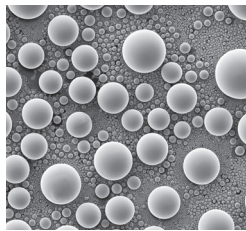
| Cat. No. | Product Description | PK |
|----------|--|-----|
| AGG214 | Athene Hexagonal 100 Mesh TEM Grids, Copper, 3.05 mm | 100 |

Other materials available.

Calibration and Test Specimens

A wide portfolio of specimens specifically for SEM test and calibration where quantification or high resolution results are required. Available mounted on a range of pin stubs or unmounted.

- High resolution and ultra-high resolution options
- Low voltage options
- Universal options



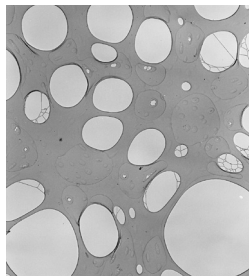
| Cat. No. | Product Description | PK |
|----------|---|----|
| AGS1937 | Universal Tin on Carbon Test Specimen on Pin Stub 12.5 mm dia., 3.2 x 8 mm pin | 1 |
| AGS1967 | Tin on Carbon Test Specimen on Pin Stub 12.5 mm dia., 3.2 x 8 mm pin | 1 |
| AGS168Z | Low KV Gold on Carbon Specimen on Pin Stub 12.5 mm dia., 3.2 x 8 mm pin | 1 |
| AGS1969 | High Resolution Test Specimen (Gold) on Pin Stub 12.5 mm dia., 3.2 x 8 mm pin | 1 |
| AGS1987 | Ultra High Resolution Test Specimen (Gold) on 12.5 mm Pin Stub | 1 |
| AGS1988 | Low KV Tin on Carbon Specimen on Pin Stub 12.5 mm dia., 3.2 x 8 mm pin | 1 |



Holey Carbon Support Films

With varying hole sizes up to 100 μm , Holey Carbon films provide support and increased image contrast in the regions of the holes compared to the regions of film. Typical applications include biological and materials science, and Cryo-TEM. Supplied in grid boxes of 25 or 50. Available on:

- Copper, nickel and gold
- 200, 300, 400 mesh grids
- H7 finder grids



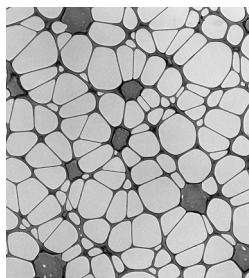
| Cat. No. | Product Description | PK |
|----------|---|----|
| AGS147 | Holey Carbon Films on 200 Mesh Copper Grids | 50 |
| AGS147N | Holey Carbon Films on 200 Mesh Nickel Grids | 50 |
| AGS147A | Holey Carbon Films on 200 Mesh Gold Grids | 50 |

Other options available.

Lacey Carbon Support Films

Fine, lacey mesh structure offers a greater percentage of open area and provides the thinnest possible support film, while maintaining strength and virtually no background interference in the TEM. Lacey carbon films are particularly suitable for studying some nanotubes, acicular crystals and biological/materials specimens.

Grid options the same as Holey Carbon.



| Cat. No. | Product Description | PK |
|----------|---|----|
| AGS166 | Lacey Carbon Films on 200 Mesh Copper Grids | 50 |
| AGS166N | Lacey Carbon Films on 200 Mesh Nickel Grids | 50 |
| AGS166A | Lacey Carbon Films on 200 Mesh Gold Grids | 50 |

Other options available.

C-Smart Functionalised Carbon Support Films

Choose your grid type and functionalisation!

Functionalisations available include: Hydrophilic basic, hydrophilic positive, hydrophilic negative and hydrophobic.

Grid types: Continuous carbon on 400 mesh copper, 3 nm ultra-thin carbon on lacey support 400 mesh copper, Quantifoil with ultra-thin carbon, 400 mesh copper.

Other functionalisations and grids are available.

Please contact us for more information.



| Cat. No. | Product Description | PK |
|------------|--|----|
| AGS250-B | C-SMART Hydrophilic, Basic Grids - continuous carbon on 400 mesh Cu | 10 |
| AGS250-NEG | C-SMART Hydrophilic, Negative Grids - continuous carbon on 400 mesh Cu | 10 |
| AGS250-P | C-SMART Hydrophilic, Positive Grids - continuous carbon on 400 mesh Cu | 10 |
| AGS251-B | C-SMART Hydrophilic, Basic Grids - 3 nm continuous carbon on holey carbon and 400 mesh Cu | 10 |
| AGS251-NEG | C-SMART Hydrophilic, Negative Grids - 3 nm continuous carbon on holey carbon and 400 mesh Cu | 10 |
| AGS251-P | C-SMART Hydrophilic, Positive Grids - 3 nm continuous carbon on holey carbon and 400 mesh Cu | 10 |
| AGS252-B | C-SMART Quantifoil Hydrophilic, Basic Grids - continuous carbon on 400 mesh Cu | 10 |
| AGS252-NEG | C-SMART Quantifoil Hydrophilic, Negative Grids - continuous carbon on 400 mesh Cu | 10 |
| AGS252-P | C-SMART Quantifoil Hydrophilic, Positive Grids - continuous carbon on 400 mesh Cu | 10 |

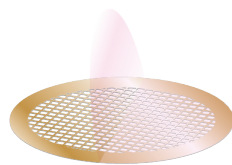
Hydrophobic versions available.



Carbon Support Films on TEM Grids

Carbon films are thin and highly transparent to electrons, offering fine grain and low contrast that does not interfere with specimen structure. The carbon films provide a convenient, ready-to-use specimen support.

- Carbon coating is 28-30 nm
- Supplied as packs of 25 or 50 grids in a grid box
- Carbon support films can be applied to other grid sizes or materials

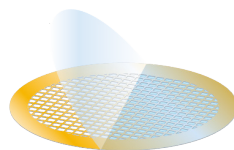


| Cat. No. | Product Description | PK |
|----------|---------------------------------------|----|
| AGS160 | Carbon Films on 200 Mesh Copper Grids | 50 |
| AGS160N | Carbon Films on 200 Mesh Nickel Grids | 50 |
| AGS160A | Carbon Films on 200 Mesh Gold Grids | 50 |

Other options available.

Formvar Support Films on TEM Grids

Formvar® coated grids without a carbon layer are suitable for TEM applications up to 100 kV. Films are available on Copper, Nickel or Gold grids.



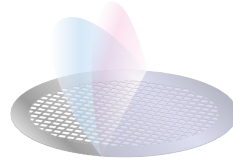
| Cat. No. | Product Description | PK |
|----------|-----------------------------------|----|
| AGS138 | Formvar® on 200 Mesh Copper Grids | 50 |
| AGS138N | Formvar® on 200 Mesh Nickel Grids | 50 |
| AGS138A | Formvar® on 200 Mesh Gold Grids | 50 |

Other options available.



Formvar-Carbon Support Films on TEM Grids

With carbon for conductivity, and Formvar to strengthen the carbon layer, these support films are recommended for use where the grid has to undergo several processing steps during specimen preparation. Supplied as 25 or 50 grids in a grid box.



| Cat. No. | Product Description | PK |
|----------|---|----|
| AGS162 | Formvar/Carbon Films on 200 Mesh Copper Grids | 50 |
| AGS162N | Formvar/Carbon Films on 200 Mesh Nickel Grids | 50 |
| AGS162AH | Formvar/Carbon Films on 200 Mesh Gold Grids | 50 |

Other options available.



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- Reduce environmental impact
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Agar Scientific

Unit 7, M11 Business Link,
Parsonage Lane,
Stansted,
Essex
CM24 8GF

01279 215506

sales@agarscientific.com