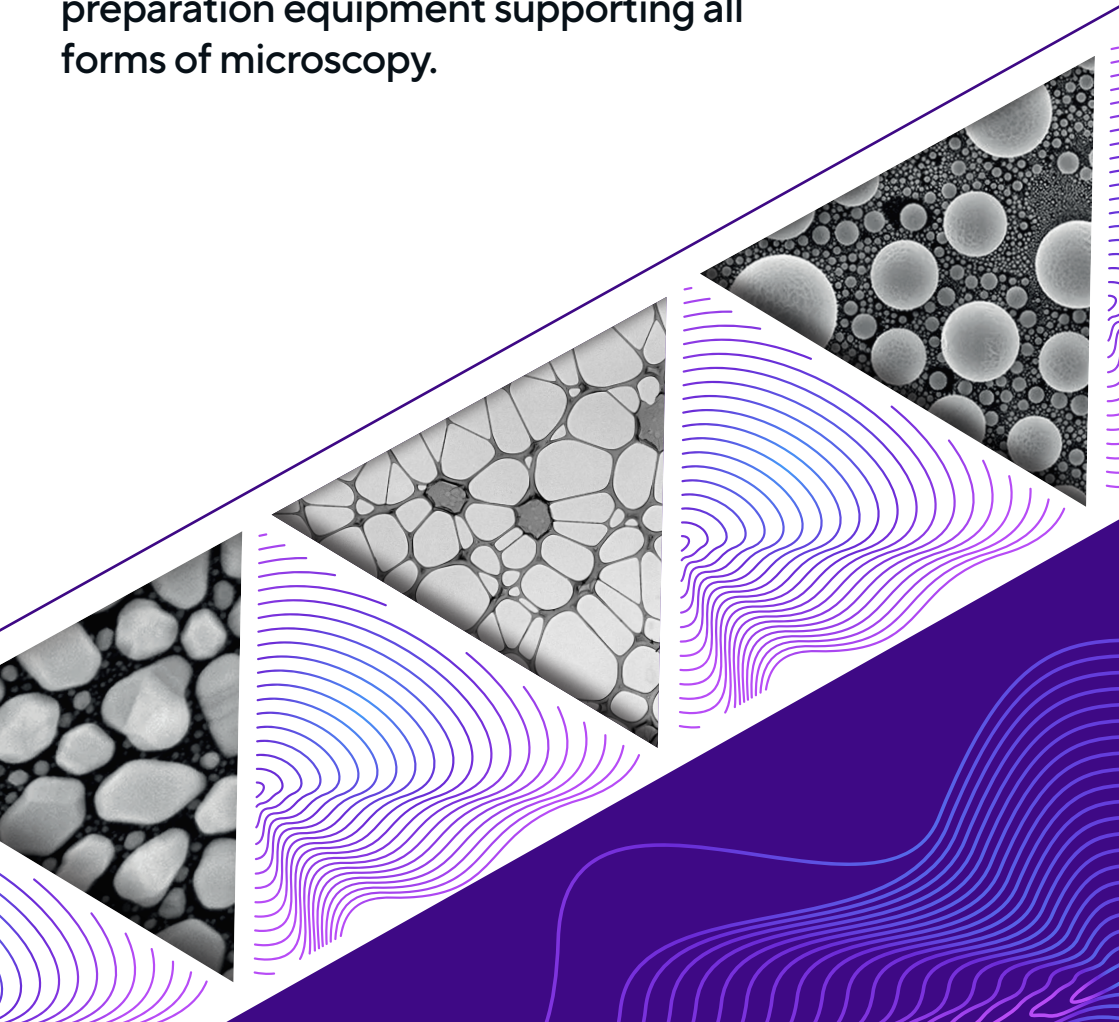
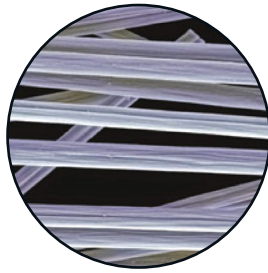
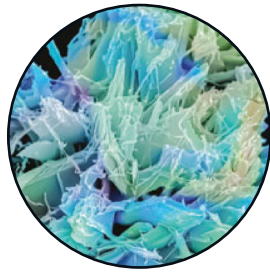
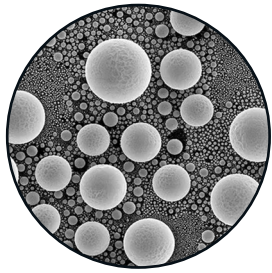


Manufactured by Agar Scientific

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, we manufacture a wide portfolio of products to support you in your microscopy applications, from chemicals to TEM grids.


Please contact sales@agarscientific.com to discuss your requirements and to request a quotation.

UA-Zero EM Stain



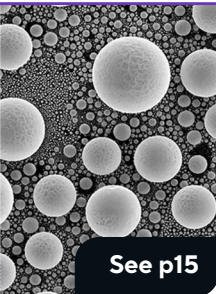
See p3

Filaments



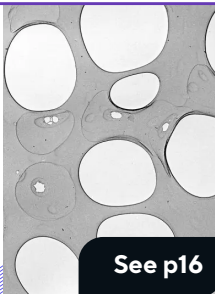
See p7

Calibration and Test Specimens



See p15

Coated Grids



See p16

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.

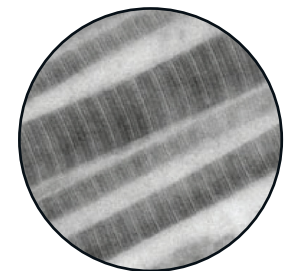
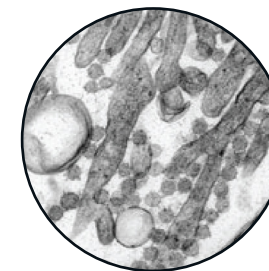
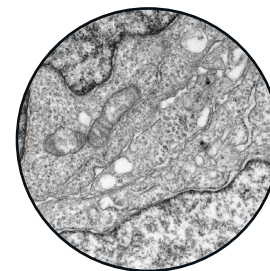


Supplied in a unique dropper bottle, which should be stored long-term in the lab fridge at around 4 °C. For daily use, the sealed bottle can be stored in normal laboratory conditions away from direct sunlight.

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

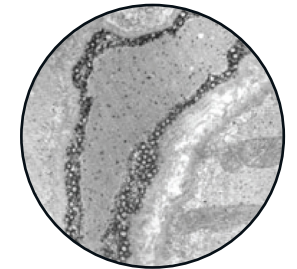
Acrylic embedding resins specifically formulated for the needs of microscopists.

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

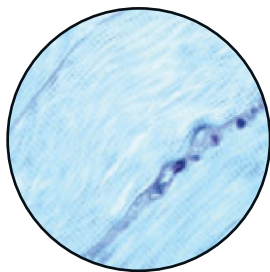


LR White

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 can bring to their work.

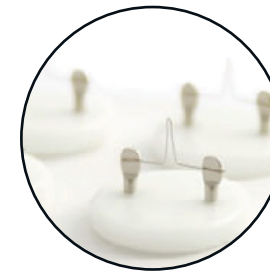


Cat. No.	Product Description	PK
AGR1131	Histocryl Resin Kit	1

Tungsten Filaments for EM

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

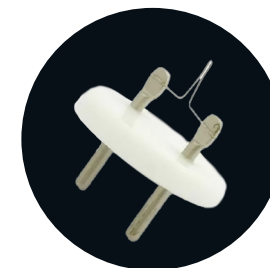
Manufactured to the highest standards, our filaments are precision made in custom engineered jigs to ensure complete accuracy of every filament to gain maximum image quality and life expectancy.



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



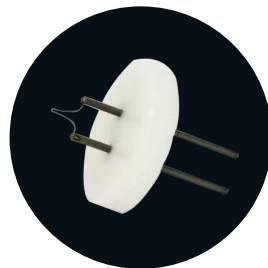
Cat. No.	Product Description	PK
AGA054	Agar Filaments for Cambridge/LEO/Zeiss and AEI	10
AGA054L	Agar Filaments for LEO Microscope, 0.15 mm wire	10
AGA054A	Agar Tungsten/Rhenium Filaments	10



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

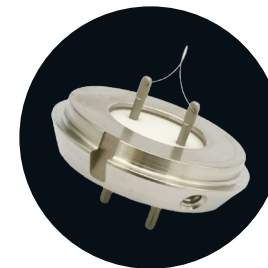


Cat. No.	Product Description	PK
AGA086	Agar Filaments for FEI	10

Agar Filaments for JEOL (K Type)

Designed for use with JEOL K-Type electron microscopes.

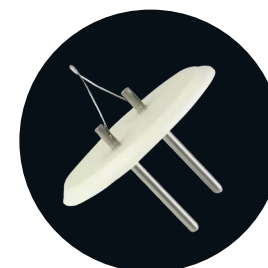
- High-ductility tungsten wire used to minimise strain
- Stress relieved by flashing in a vacuum at temperatures above the normal operating level
- Quality checked for accuracy of centring



Cat. No.	Product Description	PK
AGA092	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
AGA042C	Cartridge Filaments for Hitachi	10
AGA045	Filaments for JEOL GC Type	12
AGA043X	Filaments for Zeiss	10

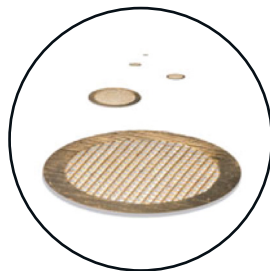




Athene TEM Support Grids

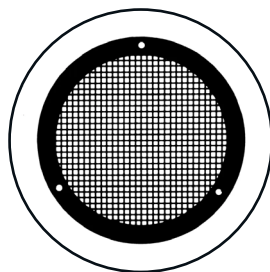
Renowned for their quality and well-defined grid bars, Athene TEM support grids have been manufactured to ensure good handling characteristics. Each grid is individually inspected before being packed. A comprehensive table of grid parameters is available on request.

- 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

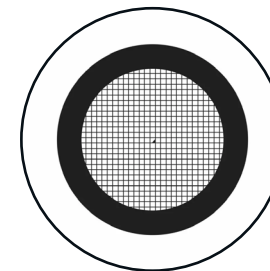


Cat. No.	Product Description	PK
AGG202	Athene Type 4, 200 Square Mesh TEM Grids, Copper, 3.05 mm	100
AGG203	Athene Type 5, 300 Square Mesh TEM Grids, Copper, 3.05 mm	100
AGG204	Athene Type 6, 400 Square Mesh TEM Grids, Copper, 3.05 mm	100

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

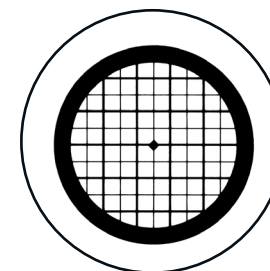


Cat. No.	Product Description	PK
AGG2002	Athene Type 7, 200 Mesh Thin Bar TEM Grids, Copper, 3.05 mm	100
AGG2003	Athene Type 8, 300 Mesh Thin Bar TEM Grids, Copper, 3.05 mm	100
AGG2004	Athene Type 9, 400 Mesh Thin Bar TEM Grids, Copper, 3.05 mm	100

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

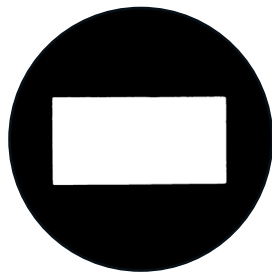
Other mesh sizes and materials available.





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

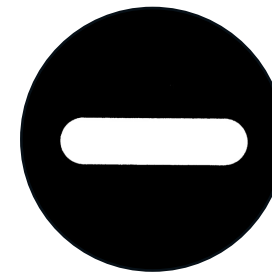


Cat. No.	Product Description	PK
AGG218	Athene Robertson TEM Grids, Copper, 3.05 mm	100
AGG221	Athene Sjostrand TEM Grids, Copper, 3.05 mm	100
AGG227	Athene Polyslot TEM Grids, Copper, 3.05 mm	100

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

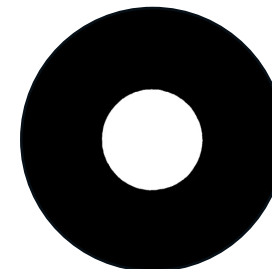


Cat. No.	Product Description	PK
AGG220T6	Athene Thick 2 mm x 500 µm Slot TEM Grids, Copper, 3.05 mm	100
AGG220T7	Athene Thick 2 mm x 1000 µm Slot TEM Grids, Copper, 3.05 mm	100

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

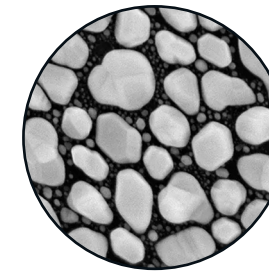
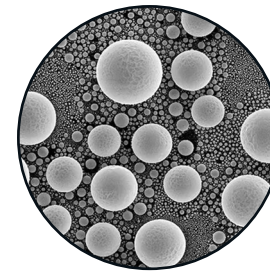
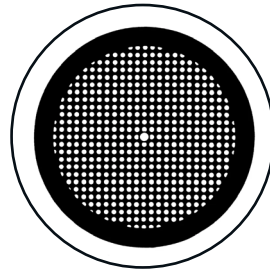
Other hole sizes and materials available.





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

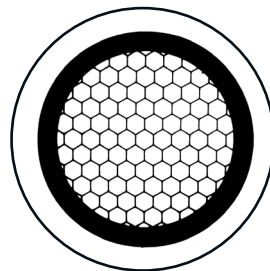


Cat. No.	Product Description	PK
AGG219	Athene 483 TEM Grids, Copper, 3.05 mm	100
AGG215	Athene AEI TEM Grids, Copper, 3.05 mm	100
AGG226	Athene R20m TEM Grids, Copper, 3.05 mm	100

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 Hexagon 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.

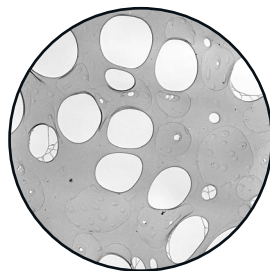
- High resolution and ultra-high resolution options
- Low voltage options
- Universal options

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:



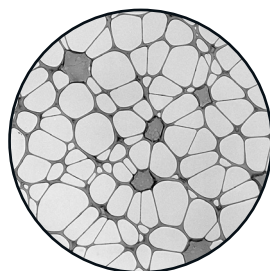
- Copper, nickel and gold
- 200, 300, 400 mesh grids
- H7 finder grids

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.

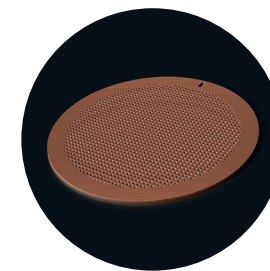
C-Smart Functionalised Carbon Support Films

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

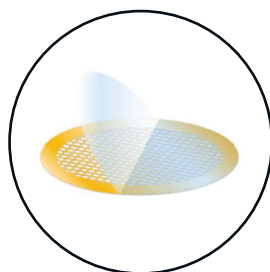


Cat. No.	Product Description	PK
AGS160	Carbon Films on 200 Mesh Copper Grids	50
AGS160N	Carbon Films on 200 Mesh Nickel Grids	50
AGS160A	Carbon Films on 200 Mesh Gold Grids	50

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.

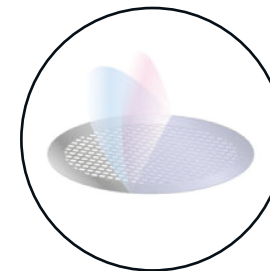


Cat. No.	Product Description	PK
AGS138	Formvar® on 200 Mesh Copper Grids	50
AGS138N	Formvar® on 200 Mesh Nickel Grids	50
AGS138A	Formvar® on 200 Mesh Gold Grids	50

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.



Sustainable Solutions for Laboratories



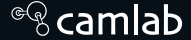
We offer a range of products and services to help you work more sustainably without impacting your daily workflows.

- Improve energy efficiency
- Lower running costs: energy and water
- Reduce environmental impact
- Lower your carbon footprint

Discover our solutions on www.medlinescientific.com



Our portfolio of brands in the UK and Ireland



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