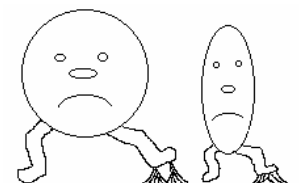


# 10 SEM, TEM, STM Supplies

## SEM Specimen/Stub Adhesives

A listing of many different adhesive methods for attaching specimens to SEM mounts.



### Colloidal Graphite

A suspension of pure, fine colloidal graphite in water or in isopropanol based solution. To form a conducting dry film of graphite on a variety of materials.

C107	Colloidal graphite - aqueous base	500g
C126	Colloidal graphite - isopropanol base	500g

### Silver Paint

An air drying paint containing silver flakes. Dries to form a conducting film that is ideal for sample mounting.

S269	Silver paint	10g
S270	Silver paint	50g

### Silver Paint Thinners

A thinner to reduce the thickness of our silver paint S066 to make thin conductive tracks on the specimen for microprobe work.

S271/1	Silver Paint Thinners	25ml
S271	Silver paint thinners	100ml

### Silver Epoxy Adhesive

A two part silver filled epoxy adhesive providing a conducting joint and bond. *Silver content 70%*. Information sheet provided with each pack.

S055	Silver epoxy adhesive	pack of 10g
------	-----------------------	-------------

### Conducting Carbon Cement (Leit-C)

A suspension of very fine carbon particles in a volatile carrier. Suitable for forming a conducting film bond between specimen or carbon disc to stub.

C198	Carbon cement (Leit-C)	30g
C198/1	Thinners for Leit-C	30ml

### Leit-C Plast

A plasticine like material with low outgassing properties suitable for use in the high vacuum of the SEM. Leit-C Plast is a conductive material requiring no additional coating and is suitable for many applications in specimen preparation.

C199	Leit-C-Plast	15g
------	--------------	-----

### Tempfix

A thermoplastic adhesive that when applied to a heated stub at approximately +40°C yields a sticky surface suitable for holding specimens. It dries quickly to a very smooth surface and remains stable under the SEM.

T328	Tempfix	set
------	---------	-----

### Microstik

A clear adhesive for mounting small particles. Provides an ultrathin base when applied to the SEM specimen mount. Dries quickly and is non-conductive

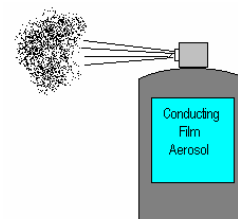
M167	Microstik solution	14ml
------	--------------------	------

# SEM, TEM, STM Supplies 10

## Conducting Film Aerosol

A rapid method of spraying a conductive film onto SEM specimens such as pieces of biological tissue. Effects are not permanent so it is ideal for rapid examination in the SEM.

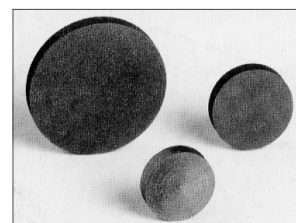
**C212** Conducting film aerosol 397ml can



## Carbon Discs

A range of discs 3mm thick with diameters of 12.5mm, 15mm or 25mm for mounting specimens in the SEM.

**C304/10** Carbon discs 12.5mm Ø pack of 10    **C305** Carbon disc 15mm Ø  
**C305/10** Carbon discs 15mm Ø pack of 10    **C306** Carbon disc 25mm Ø  
**C306/10** Carbon discs 25mm Ø pack of 10



## Conductive Carbon Adhesive Discs

For SEM stubs. An improvement on double sided tape. These new doubly adhesive carbon based discs ensure good electrical connection whilst retaining the benefits of a quick mounting method.

**C263/N** 9mm Ø pack of 100  
**C249/N** 12mm Ø pack of 100  
**C252/N** 25mm Ø pack of 51



## Sulphur-Free Conductive Carbon Discs

Adhesive discs with low background for microanalysis

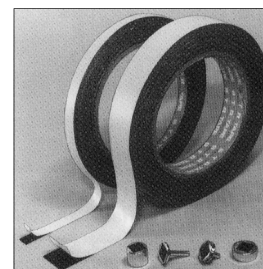
**C272** Sulphur-free conductive carbon tabs 12mm Ø pack of 120



## Double Sided Sticky Carbon Tape

Highly conductive tape for SEM and EDS applications. The double adhesive and conductive design permits quick mounting of samples without using liquid or colloidal adhesives. The tape is relatively solid and non-porous and does not absorb small samples. Thickness is 0.16mm.

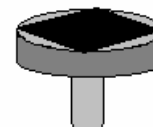
**C261** Carbon tape 8mm x 20m long each  
**C277** Carbon tape 12mm x 20m long each  
**C278** Carbon tape 50mm x 20m long each



## Conductive Carbon Adhesive Sheet

For SEM or EDS we have available double sided carbon sheet for eliminating background X-rays. When cut to size it is easy to place on SEM stubs and is contaminant free.

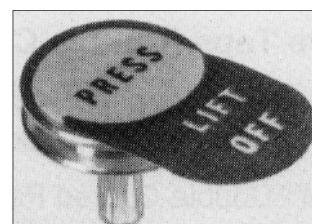
**C206** Carbon conductive adhesive sheet 5 x 12cm pack of 10



## Sticky Tabs

Sticky tabs may be affixed to most types of stubs. Once affixed to the top of a stub simply remove the peel-off tab to leave a 1/2" (12.7mm) Ø layer of adhesive to which small specimens can be fixed, or impressions such as fingerprints can be made in the adhesive for examination. Non conducting and the strong silicone adhesive does not outgas in the vacuum. The adhesive can be removed with acetone.

**T199** Sticky tabs pack of 100



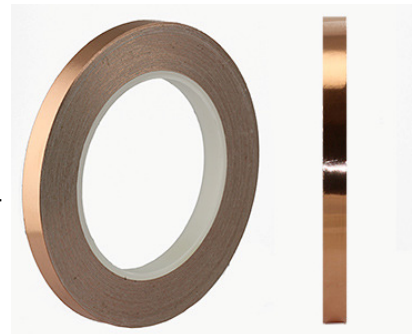
### Copper SEM Tape

**Single sided** highly conductive copper strip with pressure sensitive adhesive backing. Ideal for static charging problems using SEM/FIB applications. 30 metre rolls. Total tape thickness 0.06mm

**T617** Copper tape single sided 3mm x 30m    **T618** Copper tape single sided 6mm x 30m  
**T619** Copper tape single sided 10mm x 30m    **T188** Copper tape single sided 12mm x 30m  
**T620** Copper tape single sided 20mm x 30m

**Double sided** highly conductive copper tape with acrylic adhesive on both sides. Ideal for mounting samples directly on sample stubs and establishing an earthing path.

**T614** Double sided conductive copper SEM tape 6mm x 33m    Total tape thickness 0.085mm  
**T615** Double sided conductive copper SEM tape 12mm x 33m  
**T616** Double sided conductive copper SEM tape 20mm x 16.4m



### Aluminium Tape

Two sizes of aluminium strip with pressure sensitive adhesive backing. Ideal for conductive connections etc.

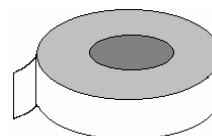
**T189** Al tape 12mm x 55m x 0.09mm per roll    **T189/1** As T189 but 0.13mm thick  
**T190** Al tape 25mm x 55m x 0.09mm per roll    **T190/1** As T190 but 0.13mm thick



### Magic Tape

This 3M tape is transparent when affixed to objects and makes amending and updating documents easy. It is ideal for making small labels being easy to type or write on and is invisible on photocopies.

**T191** Magic tape 12mm x 66m    per roll  
**T523** Magic tape 25mm x 66m    per roll



### Double Sided Tape

A thin double sided sticky tape in two widths suitable for mounting specimens and for general SEM work.

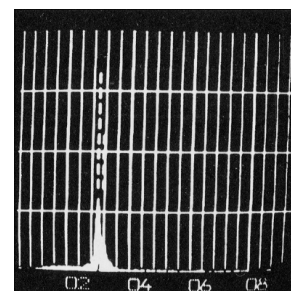
**T063** Double sided tape 12mm x 66m    per roll  
**T064** Double sided tape 38mm x 66m    per roll

### Silver Conducting Adhesive Sheet

Highly electrically conductive sheet 5 x 12 x 0.16cm thick suitable for cutting and sizing to samples for SEM.

- Little outgassing under vacuum
- Doesn't absorb or penetrate specimens

**S331** Silver conductive sheet    pack of 5



EDS spectrum of silver sheet S331

### Silicon Chip Specimen Supports

Si-chips are opaque, of low electrical resistance and have surface properties equal to glass. They are chemically inert and make good substrates for growing or mounting cells or ferritin particles. They are useful for determining resolution and contrast capabilities of the "in-the-lens" SEMs equipped with high brightness electron emitters. Si-chips are precleaned before packing.

**S332** 4" (10cm) silicon wafer diced into approx. 270 chips 5 x 5mm

