

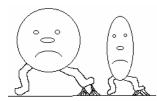
Catalogue Quantity











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

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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

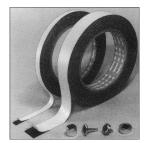
pack of 120



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 CXXX Carbon tape 20mm 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 maybe 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.

pack of 100



T199 Sticky tabs

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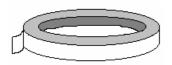
Copper SEM Tape

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 sided12mm 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
T615	Double sided conductive copper SEM tape 12mm x 33m	thickness
T616	Double sided conductive copper SEM tape 20mm x 16.4m	0.085mm



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



Magic Tape

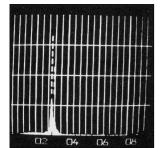
This 3M tape is transparent when affixed to objects and makes amending and updating documents easy. It is ideal for making small labels being easy to type or write on and is invisible on photocopies.



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.



EDS spectrum of silver sheet S331

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

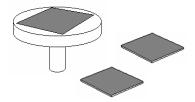
Silver Conducting Adhesive Sheet

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





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

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High Purity Conductive Double-Sided Adhesive Carbon Tabs

These high purity carbon tabs are especially developed for **SEM/EDS applications**. The material used is fully transparent for EDS with only trace amounts of Al and Si. The material is constructed using a non-woven liner coated on both sides with a conductive, carbon filled pressure sensitive acrylic adhesive. Total thickness of the material is approximately 150µm with an adhesive thickness of 45µm on both sides. The adhesive used has a high adhesion strength to metals, plastics, ceramics, wafers, rubber, wood, glass, paper, and small particles or fibres. The conductivity of the carbon tabs is lower than the conductivity of double sided copper tape or the double sided conductive Lift-N-Press tabs, but it is still fully compatible with SEM/EDS applications. *Ideal for Gunshot Residue work*.

Main Features and Benefits

- Thin material; 150µm total with 45µm on each side of a 35µm non-woven carrier
- Plastic liner on both sides
- Useable temperature range -20°C to + 60°C
- Low outgassing rates
- Fully EDS transparent with high purity for EDS applications
- High strength thin adhesive (2x45µm) combined with high tackiness
- Long shelf life and can be stored in a refrigerator
- Resistance 50K-200K



The tabs are supplied on a clear plastic sheet with a white plastic liner tab. Available as 6mm, 9mm, 12mm and 25mm diameter. **To use,** lift the tab from the clear backing sheet, press the sticky surface to the mount, then peel away the white liner tab, leaving the adhesive exposed. Mount the sample on the exposed adhesive. **Alternatively,** the white liner tab can be removed, the stub pressed on the exposed carbon tab and the clear plastic lifted off. The use of sharp pointed tweezers helps to lift of the tabs and liner. The carbon tabs can be easily removed with isopropanol, ethyl acetate, ethanol or acetone.

The 6mm Ø carbon tabs are for use with small samples on any size stub

The 9mm Ø carbon tabs are compatible with 9.5mm Ø JEOL stubs

The 12mm \varnothing carbon tabs are compatible with 12.7mm \varnothing pin stubs, 12.2mm \varnothing JEOL stubs and 15mm \varnothing Hitachi stubs The 25mm \varnothing carbon tabs are compatible with 25.4mm \varnothing pin stubs, 25mm \varnothing JEOL stubs and 25mm \varnothing Hitachi stubs

C429 High purity conductive double-sided adhesive carbon tabs 6mm Ø pack of 108

C429

C430 High purity conductive double-sided adhesive carbon tabs 9mm Ø pack of 104

C430

C431 High purity conductive double-sided adhesive carbon tabs 12mm ∅ pack of 100

C431

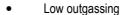
C432 High purity conductive double-sided adhesive carbon tabs 25mm Ø pack of 50

C432

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Super Smooth Conductive Double Sided Adhesive Carbon Discs

High Purity tabs developed for imaging and analysis applications of particularly fine powder and fibre samples. The adhesive used is fully transparent for EDS analysis with only trace amounts of Al and Si. Super smooth and highly conductive. Total thickness of the material is 110µm with an adhesive thickness of 40µm on each side. Exhibits high adhesion to metals, plastics, ceramics, wafers, rubber, wood, glass, paper and small particles or fibres. Supplied on a clear plastic sheet with a white plastic liner tab.

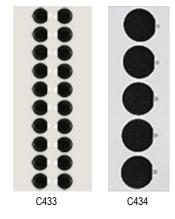


- Temp range -20°c to +60°C
- Long shelf life and can be stored in a refrigerator

To use: lift the tab of the clear backing sheet, press the sticky surface to the mount, then peel away the white liner tab, leaving the adhesive exposed. Mount the sample on the exposed adhesive. Alternatively, the white liner tab can be removed, the stub pressed on the exposed carbon tab and the clear plastic lifted off. The use of sharp pointed tweezers helps to lift off the tabs and liner. The carbon tabs are easily removed with isopropanol, ethyl acetate, ethanol or acetone.

C433 12mm carbon tabs are compatible with 12.7mm Ø pin stubs, 12.2mm Ø JEOL stubs and Ø15mm Hitachi stubs. Pack of 100

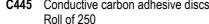
C434 24mm Ø carbon tabs are compatible with 25.4mm Ø pin stubs, 25mm Ø JEOL stubs and 25mm Ø Hitachi stubs. Pack of 50



Conductive Carbon Adhesive Discs

Conductive carbon adhesive tabs approximately 12.5mm diameter with a thin film of strong adhesive. Over 99% transparent to EDS with very small amounts of nickel (0.6%) and copper (<0.3%). For small samples, tabs can be cut to the desired size before removing the tab from the backing sheet.







Super Smooth Double Sided Adhesive Carbon Tapes

C436 C435

The material is identical to the material used for the super smooth carbon tabs with one difference; the tapes are self-wound with a thin white liner on one side. The tape can be shaped into custom forms, strips and cut-outs. Available with 5mm, 8mm, 12mm and 20mm width by 20m long. To use: Cut the required length of carbon tape. Cut to shape if needed. Remove the white liner from one side and adhere to tape to the sample support. The use of sharp pointed tweezers helps to lift the liner of the adhesive. Remove the top liner and stick sample to the tape. The carbon tape can be removed with isopropanol, ethyl acetate, ethanol or acetone.

C435 Super smooth conductive double sided adhesive carbon tape 5mm x 20m

Super smooth conductive double sided adhesive carbon tape 8mm x 20m

Super smooth conductive double sided adhesive carbon tape 12mm x 20m

C438 Super smooth conductive double sided adhesive carbon tape 20mm x 20m

Non-conductive Double Sided Adhesive Discs

Non-conductive double sided tabs are useful for AFM, LM and SEM applications where conductivity is not a requirement. We offer **two types**:

- 1) C679 Lift-N-Press premium adhesive tabs 12.5mm Ø with a thin film of strong adhesive. To use simply lift the tab off the backing sheet, press the sticky surface to the mount and peel back the tag. The adhesive can be removed with isopropanol or acetone Compatible with 12 and 15mm Ø AFM discs, 12mm mica discs, 12.7mm pin stubs. 12.2mm JEOL stubs and 15mm Hitachi stubs. Pack of 100
- These stubs have a super-strength thin adhesive (50µm)
- Smoother surface for better particle adhesion
- Lower outgassing and longer shelf life
- 2) C680 D12 economy 12mm Ø adhesive non-conductive adhesive tabs, effective and cost efficient. To use lift the protective tab to lift off the sheet and press onto sample stub. Compatible with 12 and 15mm Ø AFM discs, 12mm mica discs, 12.7mm pin stubs. 12.2mm JEOL stubs and 15mm Hitachi stubs. Pack of 100

1 CXXX Premium 12.5mm adhesive tab



CXXX D12 Economy 12mm adhesive tab



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