

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



2 CXXX D12 Economy 12mm adhesive tab



A New Range of Conductive and Non-Conductive Liquid Adhesives for SEM & FIB Mounts

Conductive paints are indispensable for SEM and FIB specimen preparation and specimen mounting. They enable quick sample mounting and deliver the conductivity needed for SEM and FIB applications.

C30 is a **premium, water based conductive carbon cement** with fine dispersed graphite flakes (~3µm). It does not contain any hydro-carbon based solvents (VOCs) and is fully compatible with high vacuum (HV) systems and even UHV systems when dry. Due to its low viscosity, cracks and small gaps are easily filled. C30 shows good conductivity when dry. Ideal for mounting SEM specimens and making earthing paths. Allows easy removal of samples afterwards due to its low mechanical strength. Good bonding properties on a wide variety of sample materials such as metals, rocks, concrete, ceramics, epoxies, wood and textiles. C30 contains approx. 20% graphite in the solution. On hydrophobic materials, we advise the use of the solvent based carbon paints. Keep container above 0°C; do not freeze!

C447/40 C30 water based conductive carbon cement, supplied in a 60ml glass bottle with **40g** contents and a cap with brush.

C447/100 C30 water based conductive carbon cement, **100g** and a cap with brush

C32 is a **novel, water based conductive graphene cement** with fine dispersed graphene sheets (~1-5µm). C32 graphene carbon paint is free off any hydro-carbon based solvents and is fully compatible with high vacuum (HV) systems and even UHV systems when dry. Due to its low viscosity, cracks and small gaps are easily filled. C32 shows high conductivity when dry. Ideal for mounting SEM specimens and making earthing paths. Allows easy removal of samples afterwards due to its low mechanical strength. Excellent bonding properties on a wide variety of sample materials such as metals, rocks, concrete, ceramics, epoxies, plastics, wood and textiles. C32 contains approx. 10% graphene in the solution. Supplied in a 30cc glass bottle with 25g contents and a cap with brush. Keep container above 0°C; do not freeze!

C448 C32 water based conductive graphene-carbon paint, no VOC, 25g bottle



New Conductive & Non-Conductive SEM Adhesives cont...



C33 is an **extremely fast drying thin carbon solvent based adhesive**. C33 has been developed to cover large areas quickly with a thin conductive layer. Ideal for making earthing paths and for covering parts of non-conductive epoxy mounts. Due to its low viscosity it easily fills cracks and narrow gaps. C33 is one of the fastest drying carbon cements on the market. Samples can be removed relatively easily due to its low bonding strength. C33 dries very quickly but is less suitable for flexible surfaces. Solvent is isopropanol, solution contains approximately 10% graphite with a polymer based binder. **Moderate conductivity**.

I012/30



C449 **C33** fast drying solvent based conductive carbon cement. Supplied in a 30ml glass bottle with 15g contents and a separate brush.

I012/30 **STC33** Isopropanol thinner and cleaner for C33 above in 30ml glass bottle

C450



C38 is a strong **conductive carbon cement** based on fine carbon black and graphite flakes with an acrylic binder. C38 exhibits excellent bonding properties on a large variety of materials such as metals, plastics, ceramics, epoxies, rubber, glass, wood and textiles. Ideally suited for making earthing paths and to bond SEM samples on sample stubs. The tough acrylic binder reduces material loss and can be used to make permanent bonds. It has the consistency of a thin paste. Dries relatively quickly, depending on thickness; drying is quicker with moderate heat up to 65°C. Can be used on flexible surfaces. **Solvent is acetone**, solution contains approximately 15% carbon black and graphite, acrylic based binder. C38 shows **enhanced conductivity** when dry. Supplied in a 30ml glass bottle with 25g contents and separate brush.

C450 **C38** Strong conductive carbon cement with acrylic binder 25g

S269



AG15 is a **conductive silver paint** based on very fine silver flakes with a thermoplastic resin binder with MEK/acetone as the carrier. AG15 is fully comparable to EDAG 1415M and DAG 915 from Acheson/Henkel. An excellent conductive glue for SEM samples, or used in electronic and shielding applications. Achieves good bonding properties on a wide variety of materials including, plastics, ceramics, glass, metals, wood, rubber, epoxies and textiles. The low viscosity silver paint is ideal for making earthing tracks and to bond SEM samples on sample stubs. Samples can be easily removed. This silver cement has the consistency of a paint. Dries relatively quickly, depending on thickness. Drying time can be reduced with moderate heat up to 70°C. Solution contains 57.5 – 59 % silver. **AG15 exhibits excellent conductivity**. Supplied in a 15ml glass bottle with a brush, 15 gram.

C269 **AG15** conductive silver paint 15g

S271/1 **MEK** extender, thinner and cleaner for AG15 silver paint. 30ml



AG42 is a **strong conductive silver cement** based on fine silver flakes (10-1µm) with an acrylic binder. Achieves excellent bonding properties on a wide variety of materials including, plastics, ceramics, glass, metals, wood, rubber, epoxies and textiles. The strong and tough acrylic binder reduces material loss and the silver flakes ensure excellent conductivity. **Use when highest conductivity is needed**. Ideal for bonding SEM samples onto stubs. This silver cement has the consistency of a paste. Dries relatively quickly, depending on thickness but drying time can be reduced with moderate heat up to 65°C. Can be used on flexible surfaces. Solvent is acetone, solution contains approximately 73% silver, acrylic based binder. Excellent conductivity.

S780 **AG42** strong conducting silver cement 15g in glass bottle with brush

S780/25 **AG42** strong conducting silver cement 25g in glass bottle with brush



AG44 is a conductive silver paint based on fine silver flakes (10-1µm size) with a low VOC acrylic binder. Achieves **excellent bonding properties** on a wide variety of materials including, plastics, ceramics, glass, metals, wood, rubber, epoxies and textiles. The tough, low VOC acrylic binder reduces material loss and the silver flakes ensure excellent conductivity. **Use when highest conductivity is needed**. Ideal for bonding SEM samples onto stubs. Samples can be easily removed. This silver cement has the consistency of a thin paste. Dries relatively quickly, depending on thickness. Drying time can be reduced with moderate heat up to 65°C. Can be used on flexible surfaces. **Solvent is acetone**, solution contains 61% silver, acrylic based binder. AG44 exhibits excellent conductivity.

S781 **AG44** strong conductive silver cement 15g in glass bottle with brush

S781/25 **AG44** strong conductive silver cement 25g in glass bottle with brush

AG46 is a **conductive silver paint** based on fine silver flakes (10-1um size) with a **water based urethane binder**. It does not contain VOC's, is solvent-free and is non-flammable. Achieves excellent bonding properties on a wide variety of materials including, plastics, ceramics, glass, metals, wood, paper and paints. Safe to use on even the most delicate plastics. The water-based urethane binder reduces material loss and the silver flakes ensure excellent conductivity. Ideal for bonding SEM samples onto stubs. Samples can be easily removed. This silver cement has the consistency of a paint. Dries relatively quickly, depending on thickness. Drying time can be reduced with moderate heat up to 65°C. Solvent is water, solution contains 60% silver, urethane based binder. **AG46 exhibits excellent conductivity**. Keep container above 0°C; do not freeze!

- S782** AG46 water based conductive silver cement no VOC's in glass bottle with brush 15g
S782/25 AG46 water based conductive silver cement no VOC's in glass bottle with brush 25g

AC29 is a **conductive paint with silver coated copper flakes**. It is an acrylic based thin paint with good bonding properties, good conductivity and affordable pricing. Conductivity with 0.015 ohm.sq is comparable to silver paints. Ideal for making earthing paths and coating non-conductive surfaces and can be used for **permanent bonding of SEM samples to stubs**. It has the consistency of a thin paint. AC29 dries relatively quickly, depending on thickness but can be speeded with moderate heat up to 65°C. Solvent is acetone, solution contains approximately 31% silver coated copper flakes, acrylic based binder. Density is 1.1g/cm3, Service temperature range is -40 to +120°C. Touch dry in 3 min. **AC29 exhibits very good conductivity when dry**.

- S783** AC29 conductive silver coated copper paint. 25g in 30ml bottle with brush

NI41 Conductive glue with nickel is an excellent alternative when silver or carbon cement are not required. It is a strong acrylic based glue with excellent bonding properties, good conductivity and affordable pricing. Same tough acrylic binder used for the carbon and silver cement. Conductivity is between silver and carbon conductive cements. Can be used for permanent bonding of SEM samples to sample stubs. It has the consistency of a paste. Dries relatively quickly, depending on thickness. Drying goes quicker with moderate heat up to 65°C. Can be used on flexible surfaces. Solvent is acetone, solution contains approximately 50% nickel, acrylic based binder. EM-Tec NI41 shows very good conductivity when dry. Supplied in a 30cc glass bottle with 25g contents and separate brush.

- N062** NI41 strong, conductive nickel cement. 25g in 30ml bottle with brush

STC39 STC39 **Acetone thinner and cleaner** for the acrylic based carbon, silver and nickel paints and cements. 99.99% pure Acetone. Supplied in a 30ml glass bottle.

- A018/30** **Acetone thinner and cleaner** for silver & nickel paints/cements 30ml bottle

