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ISO 9001 CERTIFIED

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123-50

EXTREMELY FLEXIBLE, PAD-PRINTABLE, ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 123-50 is an extremely flexible, pad printable, electrically conductive ink, coating and adhesive suitable for application by pad printing, dipping and syringe dispensing. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 123-50 include, but are not limited to. emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches, electrical attachments for surface mounted devices, and anode coatings for tantalum capacitors. 123-50 is a softer version of 118-43.

Smooth Paste

TYPICAL CURED PROPERTIES:

Consistency Filler Silver Percent Silver, cured > 85 Crease Resistance Excellent Volume Resistivity (Ω -cm) 0.000025 0.01

Sheet Resistivity (Ω /sq) Glass Transition Temperature (°C) 75 Hydrolytic Stability

Excellent Useful Temperature Range (°C) -55 to +200 Thermal Stability (°C) Good to 325

SUGGESTED HANDLING & CURING: 123-50 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinners #113-39 (fast drying), or 114-20 Retarder (slow drying). Prior to using, be certain to re-suspend silver. Best properties, for most applications, result when cured for 5-10 minutes at 170°C. Good properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 50°C to 180°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life: 12 months at 25°C.

SAFETY & HANDLING: Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.