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## 121-02

## LOW TEMPERATURE CURING CONDUCTIVE INK

**DESCRIPTION**: 121-02 is a polyester-based, electrically conductive ink, coating and adhesive suitable for application by stamping, screen printing, dipping and syringe dispensing. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other surfaces. 121-02 is formulated to provide exceptional conductivity when cured at low temperatures. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 121-02 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. 121-02 is a higher viscosity version of 114-01.

## **TYPICAL CURED PROPERTIES:**

Viscosity (cps.) 80,000 – 100,000

Filler Silver
Percent Silver, cured 87

Crease Resistance Excellent
Volume Resistivity (ohm-cm) (70°C) 0.00005
Sheet Resistivity (ohm/sq/mil) (70°C) 0.02
Solderable No

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

**SUGGESTED HANDLING & CURING**: 121-02 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner #113-12. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when cured for several minutes at 125°C to 150°C. Good properties are obtained on a variety of substrates by dry and curing for 15 minutes at 70°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life: 6 months at 25°C; or 9 months at 5°C; or 12 months at -10°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.