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119-03

FAST CURING CONDUCTIVE INK

DESCRIPTION: 119-03 is a fast curing, 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. 119-03 is formulated to provide exceptional conductivity when cured at 125°C for 5 minutes. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 119-03 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. 119-03 was developed for use with 119-04 (U.V. curable dielectric) in crossover applications.

TYPICAL CURED PROPERTIES:

Consistency	Smooth Paste
Filler	Silver
Percent Silver, cured	87
Crease Resistance	Excellent
Volume Resistivity (ohm-cm)	0.000025
Sheet Resistivity (ohm/sq/mil)	0.01
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +200
Thermal Stability (°C)	Good to 325

SUGGESTED HANDLING & CURING: 119-03 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 5 minutes at 125°C. Good properties are obtained on a variety of substrates by curing at temperatures between 70°C - 175°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.