CREATIVEMATERIALS

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ISO 9001 CERTIFIED

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122-03

CARBON FILLED, POLYIMIDE BASED, CONDUCTIVE INK FOR PRINTED RESISTORS AND POTENTIOMETERS

DESCRIPTION: 122-03 is a high temperature resistant, carbon filled, polyimide based, electrically conductive ink/coating for application by screen-printing, dipping and syringe dispensing. The product features excellent adhesion to Kapton, glass and a variety of other substrates. Unlike conventional conductive materials, this product is very resistant to abrasion and scratching. Some applications for 122-03 include, but are not limited to, printed resistors, potentiometers, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, and membrane switches. 122-03 is designed for blending with CMI 121-35 to a variety of different sheet resistivities.

TYPICAL PROPERTIES:

Viscosity (cps)	35,000
Filler	Carbon
Volume Resistance (Ω-cm)	1.0
Sheet Resistivity (Ω/square/mil)	400
Hydrolytic Stability	Excellent
Useful Temperature Range	-55°C to 210°C

SUGGESTED HANDLING & CURING: 122-03 is ready to use as supplied. Further thinning may be accomplished by adding CMI#102-03 Thinner. Prior to use, be certain to mix well to resuspend filler. **Best properties, for most applications, result when cured for 1 hour at 200°C.** Good properties are also obtained on a variety of substrates by curing for 30 minutes at 175°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf life: 1 month at 25°C, or 3 months at 5°C or 6 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.

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