CREATIVEMATERIALS

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ISO 9001 CERTIFIED

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125-10

ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 125-10 electrically conductive ink and coating suitable for application by screen printing 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 125-10 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. For some applications, 125-10 can be used as a lower cost alternative to some of our standard conductive inks.

TYPICAL CURED PROPERTIES:

Consistency	Smooth Paste
Percent Filler, cured	89
Crease Resistance	Excellent
Volume Resistivity (Ω-cm)	0.00004
Sheet Resistivity (Ω/sq/mil)	0.015
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +200
Thermal Stability (°C)	Good to 325
Theoretical Wet Coverage (in^2/gm/mil)	28.0 *
Specific Gravity	2.39

SUGGESTED HANDLING & CURING: 125-10 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of thinner 102-03. Prior to using, be certain to re-suspend fillers. Best properties, for most applications, result when cured for several minutes at 170°C to 180°C. Good properties are obtained on a variety of substrates by drying and curing at temperatures ranging from 50°C to 150°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.

REVISION DATE: 2/17/09 REVISION: B