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126-28

LOW RESISTANCE CARBON INK

DESCRIPTION: 126-28 is a carbon filled, screen-printable, electrically conductive ink suitable for application by screen-printing, dipping and syringe dispensing. This product features excellent adhesion to Kapton, Mylar, and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. 126-28 can be useful in biomedical applications, biosensors, printed heaters, resistive elements and coatings, and for electronic component manufacturing. 126-28 is designed to be age and chemically resistant.

TYPICAL CURED PROPERTIES:

Consistency	Smooth Paste
Filler	Carbon
Volume Resistivity, max. (Ω -cm)	0.02
Sheet Resistivity, max. (Ω /sq./ mil.)	8.0
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to +200
Thermal Stability ($^{\circ}$ C)	Good to 250

SUGGESTED HANDLING & CURING: 126-28 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 re-suspend filler. Best properties, for most applications, result when cured for a few minutes at 175 $^{\circ}$ C. Good properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 110 $^{\circ}$ C to 180 $^{\circ}$ C. Not recommended for applications that cannot cure above 110 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf life: 6 months at -10 $^{\circ}$ C or 2 months at 25 $^{\circ}$ 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.