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## 120-07

### SCREEN-PRINTABLE, ELECTRICALLY CONDUCTIVE INK

**DESCRIPTION:** 120-07 is a screen-printable, electrically conductive ink, coating and adhesive suitable for application by stamping, screen printing, dipping and syringe dispensing. This product features excellent adhesion to Kynar, Kapton, Mylar, glass and can also be used on low surface energy coatings such as transparent conductive oxides. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 120-07 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.

#### **TYPICAL CURED PROPERTIES:**

Viscosity (cps.)	26,000 - 30,000
Filler	Silver
Percent Silver, cured	>88
Crease Resistance	Excellent
Volume Resistance, max. ( $\Omega$ -cm)	0.00003
Sheet Resistivity ( $\Omega$ /sq/mil)	0.010
Hydrolytic Stability	Excellent
Useful Temperature Range ( $^{\circ}$ C)	-55 to +200

**SUGGESTED HANDLING & CURING:** 120-07 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of thinner #120-08. Prior to using, be certain to resuspend silver. Best properties for most substrates result when cured for 3 to 5 minutes at 110 $^{\circ}$ C. When using low surface energy substrates higher curing temperatures yield better adhesion. Using maximum curing temperatures is recommended. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf Life - 6 months at 25 $^{\circ}$ C; or 9 months at 5 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ 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.

*All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either expressed or implied with respect to results or possible infringements on patents.*

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