



**CREATIVEMATERIALS**

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ISO 9001 CERTIFIED

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## 130-09-100K

### ELECTRICALLY CONDUCTIVE, CARBON FILLED, EPOXY INK

**DESCRIPTION:** 130-09-100K is a carbon filled, screen-printable, electrically conductive, epoxy based ink and coating suitable for application by screen- printing, dipping and syringe dispensing. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other surfaces. Some applications for 130-09-100K include, but are not limited to, printed potentiometers, printed resistors, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches and anode coatings for tantalum capacitors. 130-09-200 is a 200  $\Omega$ /sq/mil version of this product, 130-09-1K is a 1,000  $\Omega$ /sq/mil version of this product, and 130-09-10K is a 10,000  $\Omega$ /sq/mil version of this product. 130-09-100K can be blended with 130-09-200, 130-09-1K, or 130-09-10K to achieve a range of resistivity.

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

|  |              |
|--|--------------|
| Consistency                              | Smooth Paste |
| Filler                                   | Carbon       |
| Sheet Resistivity ( $\Omega$ /sq./ mil.) | 100,000      |
| Hydrolytic Stability                     | Excellent    |
| Useful Temperature Range ( $^{\circ}$ C) | -55 to +200  |
| Thermal Stability ( $^{\circ}$ C)        | Good to 325  |

\* Cured 60 minutes at 175 $^{\circ}$  C in a convection oven

**SUGGESTED HANDLING & CURING:** 130-09-100K is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner 120-08. Prior to using, be certain to re-suspend filler. Best properties, for most applications, result when cured for 60 minutes at 175 $^{\circ}$ C. Good properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 150 $^{\circ}$ C to 200 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf life: 6 months 5 $^{\circ}$ 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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