



Creative Materials, Inc.  
12 Willow Road  
Ayer, MA 01432

T 978.391.4700  
F 978.391.4705

## 122-49

### SCREEN-PRINTABLE, ELECTRICALLY CONDUCTIVE INK

**DESCRIPTION:** 122-49 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 a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 122-49 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. 122-49 is a carbon version of 120-07.

#### TYPICAL CURED PROPERTIES:

Viscosity (cps.)	26,000-30,000
Filler	Carbon
Crease Resistance	Excellent
Sheet Resistivity (ohm/sq./mil)	
20 min. at 175°C:	<40
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +200
Thermal Stability (°C)	Good to 325

**SUGGESTED HANDLING & CURING:** 122-49 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 re-suspend fillers. Best properties, for most applications, result when cured for 20 minutes at 170°C to 180°C. Good properties are obtained on a variety of substrates by dry 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.