



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

T 978.391.4700  
F 978.391.4705

## 124-38

### MEDICAL GRADE ELECTRICALLY CONDUCTIVE INK

**DESCRIPTION:** 124-38 is a medical grade, electrically conductive ink, coating and adhesive suitable for application by stamping, screen printing, dipping 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 uses for 124-38 include, but are not limited to, EKG and Tens electrode applications, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, and membrane switches.

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

Viscosity (cps)	19,000
Filler	Silver/ Silver Chloride
Crease Resistance	Excellent
Volume Resistivity ( $\Omega$ -cm)	0.0002
Sheet Resistivity ( $\Omega$ /sq/mil)	0.08
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ( $^{\circ}$ C)	-55 to 150
Thermal Stability ( $^{\circ}$ C)	Good to 190

**SUGGESTED HANDLING & CURING:** 124-38 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner # 102-03 and/or CMI #113-12. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when cured for several minutes at 100 $^{\circ}$ C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50 $^{\circ}$ C to 150 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf Life: 6 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.

*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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