



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

T 978.391.4700
F 978.391.4705

113-09

ELECTRICALLY CONDUCTIVE MEDICAL ELECTRODE INK

DESCRIPTION: 113-09 is a silver/silver chloride, medical grade, electrically conductive 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. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 113-09 include, but are not limited to, transdermal drug delivery, ECG electrodes, tens electrodes and muscle stimulator electrodes.

TYPICAL CURED PROPERTIES:

Viscosity	12,000 - 16,000 cps
Filler	Silver/Silver Chloride
Crease Resistance	Excellent
Volume Resistivity (ohm-cm)	0.0002
Sheet Resistivity (ohm/sq)	0.05
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range	-55°C to +200°C
Thermal Stability	Good to 325°C

SUGGESTED HANDLING & CURING: 113-09 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner # 102-03 and/or butyl cellosolve acetate. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when cured for several minutes at 100°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.

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.

REVISION DATE: 01/21/15 REVISION: C