



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

T 978.391.4700
F 978.391.4705

112-48

CONDUCTIVE INK

DESCRIPTION: 112-48 is an electrically conductive ink/coating for application by screen-printing, dipping and syringe dispensing. The product features excellent adhesion to Kapton, Mylar, glass and a variety of other substrates. Unlike conventional conductive materials, this product is very resistant to abrasion, scratching, flexing and creasing. Some applications for 112-48 include, but are not limited to, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, and membrane switches. 112-48 is a carbon version of 125-15.

TYPICAL PROPERTIES:

Viscosity (cps)	15,000 – 20,000
Filler	Carbon
Crease Resistance	Excellent
Volume Resistance, max. (Ω -cm)	0.05
Sheet Resistivity (Ω /square/mil)	20
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to 200

SUGGESTED HANDLING & CURING: 112-48 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI thinner #112-18, #112-19 and/or #105-36. Prior to use, be certain to mix well to resuspend fillers. Best properties, for most applications, result when cured for 3 to 5 minutes at 110 $^{\circ}$ C. Excellent properties are also obtained on a variety of substrates by curing at temperatures ranging from 50 $^{\circ}$ C to 175 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf life: 2 months at 25 $^{\circ}$ C; or 6 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.