



127-11

GRAVURE-PRINTABLE MEDICAL ELECTRODE INK

DESCRIPTION: 127-11 is a medical electrode ink and coating suitable for application by wire coating, dipping and flexographic or gravure printing. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other surfaces. Unlike most readily available electrode inks, this product is able to maintain conductivity levels in contact with high salt content electrode adhesive gel. This product is designed to produce uniform smooth surfaces in thin layers and to be fast curing at low temperatures. Some uses for 127-11 include, but are not limited to, EKG and Tens electrode applications as well as other medical devices.

TYPICAL PROPERTIES:

Viscosity (cps)	400 – 800
Filler	Silver/ Silver Chloride
Silver/Silver Chloride Ratio	95:5
Crease Resistance	Excellent
Volume Resistivity (Ω -cm)	0.0002
Sheet Resistivity (Ω /sq./mil)	0.05
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to +200

SUGGESTED HANDLING & CURING: 127-11 is ready to use as supplied. Be sure to resuspend filler before use. Dilution or modification of drying rate may be accomplished by adding small amounts of Methyl Ethyl Ketone (fast drying) or Methyl Isobutyl Ketone (slow drying). Good properties, for most applications, result when cured for less than 1 minute at 75 $^{\circ}$ C. Best properties are obtained by curing at temperatures greater than 100 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

Ensure containers are stored in light-block or opaque containers. Never store in clear or metal containers. Avoid direct exposure to sunlight, UV light, and heat sources as silver chloride can discolor or agglomerate. Avoid using metal scrapers, spatulas, and tools as the silver chloride can react and potentially damage any metallic equipment. Plastic, wood, or glass are recommended. Silver chloride inks are safe to use on high grade stainless steel, nickel, and polymer screens, plates, clichés, and other equipment but care should be taken to avoid exposure to other metal surfaces.

STORAGE: Shelf Life: 6 months at 21 $^{\circ}$ C.

DO NOT STORE ABOVE 21 $^{\circ}$ 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.

REVISION DATE: 10/17/18 REVISION: B