



126-49

SILICONE MEDICAL ELECTRODE INK

DESCRIPTION

126-49 is a flexible, electrically conductive, silicone-based ink. This product is very resistant to flexing and creasing. Some applications for 126-49 include, but are not limited to, ECG, tens, and defib. sensors. 126-49 is one of the few conductive inks that can bond/adhere to silicone substrates and surfaces. In addition, it can be bonded to some types of Teflon® surfaces and rubber surfaces. 126-49 exhibits very low levels of noise and bias making it an ideal reference electrode material.

126-49 is formulated to be screen printed but can also be syringe dispensed, dipped and sprayed. The last two methods require dilution.

UNIQUE FEATURES

- * Excellent Bonding to Difficult Surfaces
- * High Temperature Resistance
- * Wide Range of Applications
- * Screen Printable

TYPICAL UNCURED PROPERTIES

Viscosity (cps)	20,000 – 25,000
Filler	Silver/Silver Chloride
Percent Silver (cured)	> 85
Silver to Silver Chloride Ratio	82:18
Crease Resistance	Excellent
Sheet Resistance (Ω /sq/mil, max)	0.1
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-70 to +260
Thermal Stability (°C)	Good to 325
Thermal Conductivity (W/mK)	4.8

SUGGESTED HANDLING & CURING

126-49 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI 127-05 thinner or xylene. Prior to using, be certain to re-suspend silver. Best properties, for most applications, result when cured for 5 to 10 minutes at 160°C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50°C to 180°C. End user is advised to experimentally determine temperature and time best suited for individual applications. Add 1-2% B-507 catalyst when maximum strength and chemical resistance is needed.

STORAGE

Shelf life: 6 months at 25°C; or 9 months at 5°C; or 12 months at -10°C. NOTE: Use catalyzed product within 24 - 36 hours.

SAFETY & HANDLING:

Contains flammable solvents. 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.