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126-49(SP)A/B

FLEXIBLE ELECTRICALLY CONDUCTIVE MEDICAL ELECTRODE INK

DESCRIPTION

126-49(SP) is a highly elastomeric, electrically conductive, silicone-based medical electrode ink. This product features a high-performance in a wide range of sensing, delivery, and stabilizing applications and features excellent repeatability, stability, and accuracy. This product is highly resistant to flexing and creasing and is ideal for applications that include, but are not limited to: ECG electrodes, TENS electrodes, reference electrodes, and transdermal drug delivery. 126-49(SP) is one of the few conductive materials that can bond/adhere to silicone substrates and surfaces and features a uniquely long pot life.

MIXING INSTRUCTIONS

Premix each part in original containers prior to mixing them together by hand until the combination is uniform.

	Part A	Part B
Color	Silver	Silver
Specific Gravity	3.38	3.34
Mix ratio by weight	1.0	1.0
Pot-Life once mixed at 25°C	4 days.	

UNIQUE FEATURES

- * Excellent Bonding to Difficult Surfaces
- * Superior Elasticity
- * High Temperature Resistance
- * Screen Printable/Syringe Dispensable
- * Long screen life

TYPICAL PROPERTIES (Mixed)

Viscosity (cps)	25,000
Filler	Silver/Silver-Chloride
Percent Silver (cured)	> 78
Specific Gravity (water=1)	3.36
Crease Resistance	Excellent
Volume Resistance (Ω -cm, MAX)	0.00025
Sheet Resistance (Ω /sq./mil, MAX)	0.1
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-60 to +280
Thermal Stability (°C)	Good to +360

SUGGESTED HANDLING & CURING

126-49(SP)A/B is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI 127-05 or Xylene. Prior to using, be certain to re-suspend silver. Good properties are achieved when cured for 60 minutes at 150°C but end user is advised to experimentally determine temperature and time best suited for individual applications. 126-49(SP)A/B is not recommended for applications that cannot cure below 100°C.

STORAGE

Shelf life: 12 months at 25°C in unopened unmixed containers.

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 suitability in a particular application or possible infringements on patents.

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