www.creativematerials.com

ISO 9001 CERTIFIED
ISO 14001 CERTIFIED

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

T 978.391.4700
F 978.391.4705

126-49(SP)C

FLEXIBLE ELECTRICALLY CONDUCTIVE MEDICAL ELECTRODE INK

DESCRIPTION

126-49(SP)C 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)C is one of the few conductive materials that can bond/adhere to silicone substrates and surfaces and features a uniquely long pot life.

UNIQUE FEATURES

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

TYPICAL PROPERTIES (Mixed)

Viscosity (cps)	25,000
Filler	Silver/Silver Chloride
Percent Filler (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)C is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI 127-05. 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)C is not recommended for applications that cannot cure above 100°C.

STORAGE

Shelf life: Up to 2 weeks at 25°C; or 6 months at 5°C; or 12 months at -10°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.

REVISION DATE: 10/15/19 REVISION: B