

Creative Materials, Inc.
12 Willow Road
Ayer, MA 01432T 978.391.4700
F 978.391.4705**126-03(SP)C****FLEXIBLE HIGH TEMPERATURE CONDUCTIVE CARBON INK****DESCRIPTION**

126-03(SP)C is a highly elastomeric, electrically conductive, silicone-based ink. This product features a high-performance design useful in a wide range of printing and coating applications and features excellent bonding to most metal and plastic substrates. This product is very resistant to flexing and creasing and is ideal for applications that include, but are not limited to, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, sealing of electronic casings. 126-03(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
- * Wide Range of Applications
- * High Temperature Resistance
- * Screen Printable/Syringe Dispensable

TYPICAL PROPERTIES

Viscosity (cps)	40,000
Filler	Carbon
Specific Gravity (water=1)	1.05
Crease Resistance	Excellent
Volume Resistance (Ω -cm, MAX)	0.65
Sheet Resistance (Ω /sq./mil, MAX)	250
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-60 to +180
Thermal Stability ($^{\circ}$ C)	Good to +200

SUGGESTED HANDLING & CURING

126-03(SP)C 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 any settled filler. Good properties are achieved when cured for 60 minutes at 150 $^{\circ}$ C but end user is advised to experimentally determine temperature and time best suited for individual applications. 126-03(SP)C is not recommended for applications that cannot cure below 150 $^{\circ}$ C.

STORAGE

Shelf life: Up to 2 weeks at 25 $^{\circ}$ C; or 6 months at 5 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ C.

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.