

Creative Materials, Inc.  
12 Willow Road  
Ayer, MA 01432T 978.391.4700  
F 978.391.4705**125-19(SP)C****FLEXIBLE HIGH TEMPERATURE ELECTRICALLY CONDUCTIVE INK****DESCRIPTION**

125-19(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, wearable electronics, high temperature bonding, and stretchable, elastomeric conductors. 125-19(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	Silver
Percent Silver (cured)	> 66
Specific Gravity (water=1)	2.4
Crease Resistance	Excellent
Volume Resistance ( $\Omega$ -cm, MAX)	0.0003
Sheet Resistance ( $\Omega$ /sq./mil, MAX)	0.1
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ( $^{\circ}$ C)	-60 to +280
Thermal Stability ( $^{\circ}$ C)	Good to +360

**SUGGESTED HANDLING & CURING**

125-19(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 silver. 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. 125-19(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:**

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.