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ISO 9001 CERTIFIED

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## 126-03

### CONDUCTIVE CARBON FILLED SILICONE INK

**DESCRIPTION:** 126-03 is a flexible, re-workable, electrically conductive, silicone-based ink. The overall balance of peel strength, cohesion, printability and high temperature holding power provides a versatility that makes this product useful in a wide range of coating, printing, fastening and bonding applications. This product is very resistant to flexing and creasing. Some applications for 126-03 include, but are not limited to, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, and electrical attachments for stress sensitive devices. 126-03 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.

126-03 is optimized for screen-printing but can also be syringe dispensed, dipped and sprayed. The last two methods require dilution.

#### TYPICAL PROPERTIES:

Viscosity (cps)	10,000 (approx.)
Filler	Carbon
Sheet Resistance ( $\Omega$ /sq/mil, MAX)	600
Crease Resistance	Excellent
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-70 to +260
Thermal Stability (°C)	Good to +325

**SUGGESTED HANDLING & CURING:** 126-03 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of xylene or 127-05. Prior to using, be certain to re-suspend fillers. 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: < 2 weeks at 25°C; or 6 months at 5°C; or 12 months at -10°C. Note: use catalyzed material within 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.

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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