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## 119-11

### **PAD-PRINTABLE, GOLD FILLED, ELECTRICALLY CONDUCTIVE INK CONCENTRATE**

**DESCRIPTION:** 119-11 is a concentrated, pad printable, gold filled, electrically conductive ink, coating and adhesive suitable for application by pad printing, dipping and syringe dispensing. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 119-11 include, but are not limited to, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches, electrical attachments for surface mounted devices, and anode coatings for tantalum capacitors. 119-11 is a higher filled version of 119-06 that can be blended with 119-06, 119-10 or 118-43.

#### **TYPICAL CURED PROPERTIES:**

Consistency	Smooth Paste
Filler	Gold
Percent Gold, cured (By Weight)	> 97
Crease Resistance	Excellent
Volume Resistivity, 47°C cure ( $\Omega$ /sq/mil.)	0.3
Glass Transition Temperature	75°C
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +200
Thermal Stability (°C)	Good to 325

**SUGGESTED HANDLING & CURING:** 119-11 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinners #113-39, or 114-20. Prior to using, be certain to resuspend filler. Good properties result when cured for 1 hour at 47°C. Good properties are obtained on a variety of substrates by dry and 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.

**STORAGE:** Shelf Life: 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.