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ISO 9001 CERTIFIED

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## 118-38(EU)

### WATERBORNE, LOW V.O.C., SCREEN-PRINTABLE, CONDUCTIVE INK & COATING

**DESCRIPTION:** 118-38(EU) is a waterborne, low V.O.C., electrically conductive ink and coating, suitable for application by screen-printing. This product features 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 118-38(EU) include, but are not limited to, medical electrodes, emi/rfi shielding, polymer thick film circuitry, membrane switches and static elimination. 118-38(EU) is an N-methyl Pyrrolidone free version of 118-38, for use in facilities where V.O.C's are a concern.

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

Consistency	Liquid
Filler	Silver
Crease Resistance	Excellent
Sheet Resistivity, 100°C cure ( $\Omega$ /sq/mil. max.)	0.055
Sheet Resistivity, 175°C cure ( $\Omega$ /sq/mil. max.)	0.025
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +140
Thermal Stability (°C)	Good to +175

**SUGGESTED HANDLING & CURING:** 118-38(EU) is ready to use as supplied. Further thinning may be accomplished by adding small amounts of distilled water. Best properties are obtained on a variety of substrates by curing for 10 minutes at 175°C. Good properties are also obtained on a variety of substrates by curing at temperatures ranging from 100°C to 175°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf Life: 6 months at 21°C. **DO NOT ALLOW TO FREEZE.**

**SAFETY & HANDLING:** 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 results or possible infringements on patents.*

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