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**114-11**

**SOLVENT-RESISTANT ELECTRICALLY CONDUCTIVE INK**

**DESCRIPTION:** 114-11 is a two component, solvent-resistant, electrically conductive ink, coating and adhesive suitable for screen printing printed circuit lines. This product features excellent adhesion to Kapton, Mylar, glass, polycarbonate and a variety of other substrates. Unlike conventional conductive materials, this product is very resistant to methyl ethyl ketone. It is also very resistant to scratching and creasing. Some applications for 114-11 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.

**TYPICAL CURED PROPERTIES:**

Consistency	Smooth Paste
Filler	Silver
Percent Silver (cured)	> 85
Crease Resistance	Excellent
Volume Resistance ( $\Omega$ -cm)	0.00005
Sheet Resistivity ( $\Omega$ /sq./mil)	0.019
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ( $^{\circ}$ C)	-55 to 175
Thermal Stability ( $^{\circ}$ C)	Good to 200

**MIXING INSTRUCTIONS:** Premix 114-11 in original container prior to adding curing agent. Add Part B-187 or when faster curing is needed add B-1418 to 114-11 and mix until uniform. **NOTE:** It is not unusual for crystallization of the B-187 or B-1418 to occur. Warm to 40-45 $^{\circ}$ C in a water bath to return the material to its original viscosity. The crystallization of the catalyst does not effect the performance of the product in any way. To prevent recrystallization, store the catalyst at temperatures between 35-45 $^{\circ}$ C.

**CURING INSTRUCTIONS:**

	<u><b>B-187</b></u>	<u><b>B-1418</b></u>
Mix Ratio (phr)	1.5	1.5
Handling Properties:	30 min. @ 80 $^{\circ}$ C	20 min. @ 80 $^{\circ}$ C
Full Cure:	1 hr. @ 110 $^{\circ}$ C	1/2 hr. @ 110 $^{\circ}$ C

**STORAGE:** Shelf life: 12 months at 25 $^{\circ}$ 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.