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110-12

ELECTRICALLY CONDUCTIVE EPOXY ADHESIVE

DESCRIPTION: 110-12 is a two part, low temperature curing, nickel filled epoxy adhesive. System is designed to be used for making electrical and mechanical attachments on electrical components and devices. When cured according to instructions, this product always results in excellent conductivity and is less sensitive to handling and ambient conditions.

	<u>Part A</u>	<u>Part B</u>
Appearance:	Gray	Light Yellow
Consistency:	Paste	Liquid
Mix Ratio (by weight):	100	7.2
Pot Life:	-----	60 minutes

MIXING INSTRUCTIONS: Premix Part A in original container prior to adding curing agent. Add Part B to Part A and mix until uniform. **Due to the purity of the resins in 110-12 Part A, it is not unusual for crystallization to occur. Place the 110-12 Part A in a warm water bath at 40°C – 45°C to return the material to its original viscosity. Time for uncrystallization is dependent on temperature and mass. Allow uncrystallized 110-12 Part A to return to room temperature before adding 110-12 Part B, in order to maintain maximum pot life. The crystallization does not affect the performance of the product in any way.**

CURING INSTRUCTIONS: Best results are obtained when product is cured at 100 °C for 10 minutes. Material can also be cured at 65 °C for 30 minutes, but material will not be as conductive.

TYPICAL CURED PROPERTIES:

Volume Resistivity , max. (Ω-cm)	
65°C	1.7
100°C	0.65
Tensile Shear (psi)	>1800
Water Absorption (%)	< 0.06
Tensile Strength (psi)	11,200
Solvent Resistance	Excellent
Solderable	No
Specific Gravity	2.4
Thermal Conductivity (BTU/ft ² hr°F/ft)	3.4

STORAGE: Shelf Life Part A and B: One year in unopened, unmixed containers.

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.

REVISION DATE: 1/6/2000 REVISION: B