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125-18

ELECTRICALLY CONDUCTIVE EPOXY ADHESIVE

DESCRIPTION: 125-18 is an easy to use, 1 to 1 mix ratio, two part, heat curing, silver-filled epoxy adhesive. System is designed to be used for making electrical and mechanical attachments on electrical components and devices. Unlike typical heat curing systems, this product always results in excellent conductivity and is less sensitive to handling and ambient conditions. 125-18 is a higher bond strength version of 118-15A/B.

	Part A	Part B
Appearance:	Silver	Silver
Consistency:	Paste	Paste
Mix Ratio (by weight):	1	1
Pot Life:	-----	> 4 days

MIXING INSTRUCTIONS: Premix Parts A and B in original container prior to combining. Add Part B to Part A and mix until uniform.

CURING INSTRUCTIONS: Best results are obtained when product is cured at one of the following schedules:

- 90 mins @ 80°C or
- 15 mins @ 120°C or
- 5 mins @ 150°C or
- 45 secs @ 175°C

TYPICAL CURED PROPERTIES:

Property	Value	Units
Viscosity	Smooth Paste	-
Volume Resistivity		
- Cured 15 min @120°C	0.001	Ω-cm
- Cured 1 hour @ 150°C	0.0005	Ω-cm
Thermal Conductivity	6.5	W/mK
Glass Transition Temperature (Tg)	117	°C
Coefficient of Thermal Expansion - Below Tg	45 x 10 ⁻⁶	in/in/°C
- Above Tg	105 x 10 ⁻⁶	in/in/°C
Tensile Shear Strength, min.	2000	psi
Solvent Resistance	Excellent	-
Specific Gravity	2.6	g/cc
Useful Temperature Range	-55 to 200	°C
Thermal Stability	Good to 300	°C

STORAGE: Shelf life: 12 months at 25°C, in unopened, unmixed containers.

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.

All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either implied or expressed with respect to results or possible infringements on patents.

REVISION DATE: 5/27/10 REVISION: B