



Creative Materials, Inc.
141 Middlesex Road
Tyngsboro, MA 01879

T 978.649.4700
F 978.649.2040

118-15C

ELECTRICALLY CONDUCTIVE EPOXY ADHESIVE

DESCRIPTION: 118-15C is an easy to use, one part, heat cured, silver-filled epoxy adhesive. The product 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. 118-15C is the one component version of 118-15A/B.

Appearance:	Silver
Consistency:	Paste
Pot Life:	5 days at 21°C

SUGGESTED HANDLING: 118-15C is supplied ready to use. Product should be stored frozen. Allow to come to room temperature before opening container. Prior to use, mix well to re-suspend silver.

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

- 90 mins @ 80°C or
- 60 mins @ 100°C or
- 15 mins @ 150°C or
- 45 secs @ 175°C

TYPICAL CURED PROPERTIES:

Property	Value	Units
Volume Resistivity	0.0001 to 0.0004	Ω-cm
Thermal Conductivity	6.5	W/mK
Glass Transition Temperature (Tg)	115	°C
Coefficient of Thermal Expansion - Below Tg	36 x 10 ⁻⁶	in/in/°C
- Above Tg	88 x 10 ⁻⁶	in/in/°C
Tensile Shear Strength, min.	1500	psi
Solvent Resistance	Excellent	-
Solderable	No	-
Specific Gravity	2.6	g/cc
Useful Temperature Range	-55 to 200	°C
Thermal Stability	Good to 300	°C

STORAGE: Shelf life: 6 months at -40°C, 3 months at -10°C, 2-4 days at 25°C in an unopened container. Frozen storage is recommended.

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: 4/7/10 REVISION: E