



AI TECHNOLOGY INC
 70 Washington Road
 Princeton Jct., NJ 08550
 (609) 799-9388 fax (609) 799-9308
 E-Mail: ait@aitechnology.com
 Internet: http://www.aitechnology.com

PRIMA-BOND
ME8512

High Strength
Solvent Free
Electrically Conductive
Epoxy Paste Adhesive

IDEAL FOR:

- No Bleeding
- Conventional Die Attach
- Automated Assembly
- High Thixotropic Requirements

DESCRIPTION:

ME8512 is designed for automated, online processing. This single component, silver filled paste is solvent free, and electrically and thermally conductive. It is highly thixotropic with minimal sag.

ME8512 has been designed to eliminate bleeding on both silver plated copper and alloy 42 leadframes.

TYPICAL PROPERTIES*

Electrical Resistivity (150 °C/ 60 min)	<4x10 ⁻⁴ ohm-cm
Dielectric Strength (Volts/mil)	Not Applicable
Glass Transition Temp.(°C)	52
Current Carrying Capabilities	50 Amp/mm ²
Lap-Shear Strength	>1200 psi >8.3 N/mm ²
Device Push-off Strength	>1600 psi >11.0 N/mm ²
Hardness (Type)	Not Available
Cured Density (gm/cc)	3.5
Thermal Conductivity	55 Btu-in/hr-ft ² -°F 7.9 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	40
Maximum Continuous Operation Temp. (°C)	150
Avg. Viscosity(0.5 rpm, 24°C) (Brookfield DV-1,spindle CP51)	91,000 cp

* Properties given are typical values and not intended for use in preparing specifications. The user is advised to evaluate the product in the manner the product is intended to be used in manufacturing and in the final product.

CURE SCHEDULES:

<u>Temperature</u>	<u>Time</u>
150°C	30 min

AVAILABILITY:

ME8512 is available in syringes for automatic needle dispense applications or in jars.

Electrical conductivity improves with longer cure time.

APPLICATION PROCEDURES:

- (1) Thaw for 30 min. before opening jar or using syringes.
- (2) Dispense adhesive onto clean substrate with a suitable pattern to assure full die coverage.
- (3) Cure according to the recommended schedule.

SHELF LIFE:

<u>Storage temperature</u>	<u>Shelf Life</u>
-40°C	1 yr
0°C	1 mo

Pot life: 25°C for 5 days. Silver filler begins to separate after 24 hours at 25°C.

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