

## TIM-897M-2

### ELECTRICALLY CONDUCTIVE EPOXY ADHESIVE

**TIM-897M-2** one part, silver filled, high electrical conductivity epoxy adhesive. It is designed for microelectronics applications. It is very smooth, thixotropic paste capable of application by automatic dispenser, die stamping, screen printing, stencil or hand probe. It requires heat cure to obtain optimal properties.

#### TYPICAL HANDLING PROPERTIES:

Consistency	Smooth paste
Viscosity @ 25°C, cps (Cone plate, spindle#51, 5 rpm)	47,000
Shelf life @ 0°C	4 months
@ <20°C	1 month

#### Recommended Cure: (Bondline curing Temperature)

	1-2 minutes @ 175°C
	5 minutes @ 150°C
Or	30 minutes @ 125°C
Or	1 hr @ 100°C

#### TYPICAL CURED PROPERTIES:

(Tested at 25°C unless otherwise indicated)

Color	Silver
Specific Gravity	3.2
Hardness, Shore D	89
Lap Shear Strength to Aluminum, psi	1300
Volume Resistivity, ohm-cm	0.0004
After 100 hrs @ 150°C	0.0004
After 1000 hrs @ 150°C	0.0008
Glass Transition Temperature, °C	82
Coefficient of Thermal Expansion, ppm/°C	
From -54°C to 27°C	56
From 27°C to 80°C	75

#### Ionic Impurities\*:

Chloride (Cl-)	< 100 ppm
Sodium (Na+)	< 20 ppm
Potassium (K+)	< 20 ppm

#### INSTRUCTIONS FOR USE:

1. If stored at 0°C freezer, removes from the freezer, do not remove the cover and let it thaw at room temperature for about 15 to 30 minutes depends on the quantity.
2. Wipe any condensed moisture from the container and open the cover.
3. Apply to clean bonding surfaces and cure as recommended to achieve the desired properties.
4. Typical cured properties were determined using recommended cure schedule. Some difference in properties may occur with the alternate or other cure schedules.

#### FOR INDUSTRIAL USE ONLY:

Practices of good housekeeping, safety and cleanliness should be followed before, during and after use.

#### WARNING!

Adequate ventilation of work place and ovens is essential. These materials may cause injury to the skin following prolonged or repeated contact and dermatitis in susceptible individuals. In case of skin contact, wash thoroughly with soap and water. For eyes, flush immediately with plenty of water for at least 10 minutes and seek medical attention. Refer to Material Safety Data Sheet (**MSDS**) for additional health and safety information.

#### AVAILABILITY:

**Premixed and frozen** - Packaged in 3cc, 5cc and 10cc disposable syringes and 1 lb. container.