



40-3907 ELECTRICALLY CONDUCTIVE EPOXY ADHESIVE

DESCRIPTION:

40-3907 is an electrically conductive epoxy system designed for applications requiring low temperature cures. 40-3907 will cure at room temperature in 18-24 hours or can be accelerated with mild heat.

This is a solvent free epoxy system filled with silver. 40-3907 epoxy resin has a low hydrolyzable chloride content making it ideal for electronic applications. This epoxy also exhibits outstanding chemical resistance.

FEATURES:

- Electrically conductive
- Thermally conductive
- Room temperature cure
- Good bond strength
- Excellent chemical resistance

TYPICAL SPECIFICATIONS:

Mix ratio, by weight (Resin:Catalyst)	100:5
Pot life, 100 gram mass @ 25°C	45 Minutes
Mixed viscosity	Thixotropic paste
Linear shrinkage, in/in	.003
Hardness, shore D	80-85
Specific gravity, 25°C	
Resin	3.1
Hardener	1.0
Hydrolyzable Chloride, max% (epoxy)	0.10
Tensile lap shear, psi (Al to Al)	1,200
Flexural strength, psi	10,900
Thermal conductivity, W/m- °K	8.65
Thermal expansion coefficient, per °C	26×10^{-6}
Operating temperature range, °C	-60 to +135
Volume resistivity, ohm-cm	7×10^{-4}

INSTRUCTIONS FOR USE:

- 1) All surfaces to be bonded or coated should be completely cleaned and grease free.
- 2) By weight thoroughly mix 5 parts 40-3907 Catalyst to 100 parts 40-3907 Resin (pre-weighed kits eliminate the need to weigh components).
- 3) Cure according to one of the following cure Schedules:
 - a. 25°C 18-24 Hours
 - b. 65°C 2-3 Hours

AVAILABILITY:

40-3907 is available in bulk, pre-weighed kits, hinge packs, and pre-mixed & frozen.

STORAGE AND HANDLING:

40-3907 Resin and hardener should be stored at 25°C in original tightly sealed containers. Expected shelf life is twelve months in original unopened containers.

Filler settling is common with these products. Gently stir resin and hardener before using to make sure fillers are evenly dispersed.

IMPORTANT:

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06/19