

# 10-3092

## HIGH PERFORMANCE EPOXY ADHESIVE

### DESCRIPTION:

10-3092 is a two-component, high strength epoxy adhesive system. This adhesive is formulated with fiberglass for added impact, compression and thermal shock resistance.

10-3092 is a reliable bonding agent with excellent electrical insulation properties.

### BENEFITS:

- Fiberglass reinforced for added strength
- Bonded parts can withstand thermal shock
- Can be cured with a variety of curing agents
- Provides good chemical resistance

### TYPICAL SPECIFICATIONS:

	Catalyst 190	Catalyst 30	Catalyst 145
Viscosity, 25°C, CPS, Mixed	26,000	32,000	3,500
Specific Gravity, 25°C, Resin 1.54	---	---	---
Working Time, 25°C, 100 grams	45 min.	> 4 hrs	60 min.
Mix Ratio by weight	100:6.5	100:13	100:15
Tensile lap shear, psi	3,500	4,000	3,000
Coefficient of thermal expansion, °C	45 x 10 <sup>-6</sup>	45 x 10 <sup>-6</sup>	45 x 10 <sup>-6</sup>
Glass transition temperature, °C	91	110	65
Thermal conductivity, btu·in/hr·ft <sup>2</sup> ·°F	3.5	3.5	3.5
Operating temperature range, °C	-40 to +135	-55 to +155	-65 to +110
Dielectric strength, V/mil	400	400	400
Volume resistivity @ 25°C, ohm-cm	10 <sup>14</sup>	10 <sup>14</sup>	10 <sup>14</sup>

### INSTRUCTIONS FOR USE:

#### ROOM TEMPERATURE CURING WITH CATALYST 190

Catalyst 190 is designed for applications requiring a room temperature curing system with excellent physical and electrical insulation properties.

- 1) By weight, thoroughly mix 100 parts 10-3092 epoxy to 6.5 parts Catalyst 190.
- 2) Cure according to one of the following schedules:

25°C	24 hours
45°C	4-6 hours
65°C	1-2 hours

### ROOM TEMPERATURE CURING WITH CATALYST 145

Catalyst 145 is designed for applications requiring a room temperature curing system with excellent thermal shock and low temperature performance.

- 1) By weight, thoroughly mix 100 parts 10-3092 epoxy to 15 parts Catalyst 145.
- 2) Cure according to one of the following schedules:

25°C	24 hours
45°C	4-6 hours
65°C	2-4 hours

**HEAT CURING WITH CATALYST 30** (Recommended for higher operating temperature and physical property applications):

Catalyst 30 is designed for applications requiring the optimum in electrical insulation, physical and thermal properties.

- 1) By weight, thoroughly mix 100 parts 10-3092 epoxy to 13 parts Catalyst 30.
- 2) Pour and cure according to one of the following recommended cure schedules:
  - a) 85°C (185°F) 3-4 hours
  - b) 100°C (212°F) 2-3 hoursFor optimum performance, an additional 2 hours @ 365°F (185°C) is recommended.

### IMPORTANT:

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