



# Extreme A-2902

## ELECTRICALLY CONDUCTIVE, TWO COMPONENT EPOXY

### Product Description

**Extreme A-2902** is an electrically conductive, silver filled epoxy adhesive recommended for electronic bonding and sealing applications that require a combination of good mechanical and electrical properties. This two part, smooth paste formulation of refined pure silver and epoxy is free of solvents, copper, and carbon additives. It develops strong, durable, electrically and thermally conducting bonds and coatings between many different and dissimilar materials such as metals, ceramics, glass and plastic laminates. **Extreme A-2902** cures at room temperature and can be used as a “cold Solder” for heat sensitive components where hot soldering is impractical. It also can be used for the assembly and repair of electrical modules, printed circuits, wave guides, flat cable and high frequency shields. This adhesive complies with the requirements of NASA’s outgassing specification

### Why You Should Select this Adhesive

- Cures at Room Temperature
- Electrically & Thermally Conductive
- Bonds Dissimilar Materials
- Complies with NASA Outgassing Specifications
- Strong, Durable Bonds

### Shelf Life

Shelf life is six months when stored below 90°F out of sunlight and in original, unopened containers of pints or greater. Shelf life will vary with specialty packaging.

Contact an **EXTREME ADHESIVES®** Adhesive Applications Specialist for further recommendations on adhesive selection.

### Physical Properties

Color:	Silver
Solids %:	100
Specific Gravity:	2.5
Viscosity (after mixing):	Smooth Paste
Operating Temperature, °C:	-60° to 125°
BTU In/Hr Ft <sup>2</sup> °F:	42
Hardness, Shore D:	85
CTE cm/cm °C:	49 x 10 <sup>-6</sup>
Outgassing (NASA)	Passes

### Handling Characteristics

Mix Ratio by Weight, Resin to Hardener:	100 to 6
Pot Life @ 25°C:	60 - 70 min.
Cure Schedule @ 25°C:	18 hrs.
Cure Schedule @ 65°C:	2 hrs.
Cure Schedule @ 100°C:	30 min.
Cure Schedule @ 120°C:	15 min.

### Values After Various Cure Schedules

Bondline Cure Schedule	Volume Resistivity Ohm-cm@25°C	Tensile Shear AI/AI, psi
15 min/120°C	0.0002	1710
30 min/100°C	0.004	1500
2 hrs/65°C	0.006	1000
24 hrs/25°C	>0.20	700

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