

CHEMTRONICS®

Technical Data Sheet

TDS CW2460

60 Minute Conductive Epoxy

PRODUCT DESCRIPTION

The 60 Minute Conductive Epoxy is a two part, silver epoxy used in prototype, repair and general solder-less conductive bonding applications. It features strong mechanical bonds, excellent electrical conductivity, and extended pot life for increased work time. Components can be easily placed and replaced before full cure occurs. For accelerated cure, simply heat material to 212°F (100°C). This conductive epoxy bonds aggressively to a wide variety of materials.

- Two-component product with simple mixing ratios
- Cure time offers increased workability and extended pot life
- Excellent electrical and thermal conductivity
- High strength bond adheres dissimilar surfaces
- Operating temperature range from -67°F (-55°C) to 300°F (150°C)

TYPICAL APPLICATIONS

60 Minute Conductive Epoxy may be used for electronics applications including:

- Conductive Bonds Between Heat Sensitive Components
- Solderless Surface Mount Connections
- Circuit Board Trace Repair
- Static Discharge and Grounding
- Solder Repair
- Conductive Structural Adhesions

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Composition		
Material	Part A Part B	Adhesive Hardener
Color	Part A Part B	Bright Silver Gray Silver
Silver content		>75%
Cured Compound		
Volume Resistivity		<0.001 ohm-cm
Thermal Conductivity		
Cal-cm/sec-cm ² -°C		3.8 x 10 ⁻³
BTU-in/hr-ft ² -°F		11.0
W/m ² K		1.6
Operating Temperature Range		-67°F to 300°F (-55°C to 150°C)
Tensile Lap Shear (ASTM D-1002)		>70-140 Kgm-cm ²
Shore D Hardness		>70
Adhesion		Excellent
Cured Flexibility		Excellent
Chemical Resistance		Excellent
Moisture Resistance		Good
Typical Thickness		5 mil
Shelflife		12 months - Store at temperatures below 120° F
RoHS Compliant		

