

Product  
Bulletin

# E10-108

## Flexible, Room Temperature, Silver Epoxy, Electrically Conductive, Adhesive

**GENERAL DESCRIPTION**

E10-108 is a two-component, conductive, silver-filled, flexible, epoxy adhesive. This unique formulation is free of solvents and carbon or copper additives.

E10-108 passes NASA's outgassing testing (ASTM E-595) and is listed in NASA's Outgassing Data for Selecting Spacecraft Materials list.

E10-108 cures at room temperature to form a tenacious bond between similar and dissimilar substrates including glass, plastic, ceramics, insulates, and metals.

E10-108 is recommended for sealing and coating applications that need a combination of flexibility and good mechanical and electrical properties.

E10-108 has been used extensively in such diversified applications as in the assembly or repair of printed circuit boards, electronic modules, flat cable, high frequency shields, flexible circuits and as a cold solder for high-sensitive components where hot-soldering is impractical.

**SPECIFICATIONS**
ELECTRICAL PROPERTIES:

Volume Resistivity, ohm-cm.....0.0001

HANDLING CHARACTERISTICS:

Base:	Epoxy
Solvent:	None
Carbon Additives:	None
Copper Additives:	None
Reactive Solids Content, %:	100
Mix Ratio: by weight, Resin to catalyst	1:1
Mixed Viscosity at 25°C, cps:	Smooth Paste
Workable Pot Life,	
100 gm. Mass at 25°C:	2 hrs.
Color:	Silver
Cure Schedule:	16 hrs. @ 25°C Or 2 hrs. @ 65°C

PHYSICAL CHARACTERISTICS:

Hardness Shore A:	64
Specific Gravity:	2.85
Thermal Conductivity,	
Thermal Conductivity: btu / hr / ft <sup>2</sup> / °F / in	5
Operating temp. Range, °C:	-60 to +115

NASA OUTGASSING RESULTS

TML (Total Mass Loss) %	1.18
CVCM (Collected Volatile Condensable Materials) %	0.15
WVR (Water Vapor Recovery) %	0.33

**APPLICATION**

1. Clean and remove any dirt and grease from surfaces to be bonded.
2. Mix components thoroughly, until the color is uniform throughout the mixture.
3. Apply and cure; maintain contact between prepared surfaces until the adhesive has cured.

**AVAILABILITY and PACKAGING**





ALFA E10-108 is available for immediate delivery from stock in:  
 \*Highly flexible transparent two compartment plastic pouch, each section is filled with premeasured component. Pouches are supplied in 2,5,10 & 20-gram sizes.  
 \*Premeasured, pint, Quart, gallon Kits

**PRICE ON REQUEST**

**PACKAGING**  
 E10-108 is available in

1- Burst Pouches (2.5 grams, 5grams, 10grams)

2- Jars Kits: (0.5 Lb., 1.0 Lb., 2.0 Lb.)

 <p><b>1</b></p>	<p>Roll pouch to force liquid toward burst seal.</p>
 <p><b>2</b></p>	<p>Squeeze and apply pressure to burst through seal</p>
 <p><b>3</b></p>	<p>Mix thoroughly on edge of desk until well mixed</p>
 <p><b>4</b></p>	<p>Cut corner and dispense.</p>

Pre-measured part A and B

