

Product  
Bulletin

# E10-102

## Single-Component, High Temperature Resistant, Nickel-Filled, Electrically Conductive Epoxy Adhesive

### GENERAL DESCRIPTION

E10-102 is a single component, heat curing, conductive epoxy polymer that was designed For ease in handling. This high performance conductive polymer cures quickly at elevated temperatures making it ideally suited for rapid Processing and assembly.

E10-102 offers excellent mechanical, electrical, and physical properties at continuous operating Temperatures up To 175°C. This versatile nickel conductive adhesive can be **used** for chip bonding in Micro and electronic hybrid circuit Fabrication. This unique conductive polymer also exhibits outstanding adhesion to a wide variety of substrates with good hot strength at Intermittent temperatures up to 325°C.

E10-102 has also been used in microwave applications for EMI and FRI shielding, for assembly and repair of circuit boards and Electronic component manufacturing.

### STORAGE AND HANDLING

Since settling may occur in storage, remix each container Prior to use. Refrigeration storage is recommended to minimize filler settling and to maintain viscosity and Electrical conductivity. If refrigeration storage is used, to avoid condensation, allow to stabilize to room Temperature before opening and removing material. OSHA Form 20 Material Safety Data Bulletins are available on request.

### **THIS PRODUCT IS SOLD FOR INDUSTRIAL USE ONLY, KEEP OUT OF REACH OF CHILDREN.**

Read and understand all MSDS before use. Liquid uncured epoxy material may cause skin sensitization or other allergic responses. Prevent all contact with skin or eyes. If contact occurs, flush immediately with plenty of water and get immediate medical attention.

### SPECIFICATIONS

#### HANDLING CHARACTERISTICS:

Base:	Epoxy
Solvent:	None
Carbon Additives:	None
Copper Additives:	None
Mixed Viscosity at 25°C, cps:	Soft Paste
Color, Filler	Grey, Nickel
Cure Schedule:	2 hrs. @ 125°C 1 hr. @ 150°C ½ hr. @ 175°C
Shelf Life:	4 months – Room Temp 9 months – Refrigerate
Hardness(ShoreD)	88

#### THERMAL CHARACTERISTICS:

Thermal Conductivity,	
btu/hr/ft <sup>2</sup> /°F/in:	10.1
Operating Temp. Range, °C:	-55 to +175
	Intermit. To
	325

#### ELECTRICAL CHARACTERISTICS

Volume Resistivity, ohm-cm:  $3.8 \times 10^{-2}$

#### **AVAILABILITY and PACKAGING**

ALFA E10-102 is available for immediate delivery

From stock in:

\* in 2,5,10 &20 gram sizes.

\* pint, Quart, gallon Kits

**PRICE ON REQUEST**

## PACKAGING

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

Pre-measured part A and B



## PACKAGING

