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Product Bulletin

E10-106

Low cost, lightweight silver epoxy electrical conductor; can be used in adhesive potting, and coating applications; low volume resistivity.

GENERAL DESCRIPTION

E10-106 represents the newest technology since the introduction of electrically conductive silver compounds. This unique formulation is based on a silver coated ceramic that results in lower material costs without adversely sacrificing the properties obtained with a pure silver formulation. This concept opens the door to a wide range of applications previously prohibited by the much higher cost of conventional silver conductives.

E10-106 cures at room temperature or can be accelerated with mild heat to form a tenacious bond between similar and dissimilar substrates such as aluminum, copper, magnesium, steel, bronze nickel, ceramic, glass, phenolic, and G-10 epoxy glass boards.

E10-106, because of its excellent continuity, has been used extensively in such diversified applications as, microwave EMI and RFI shielding, in the assembly or repair of printed circuit boards, wave guides, electronic modules, flat cable, high frequency shields, connections, circuitry and as a cold solder. This unique formulation offers ease in handling due to its creamy consistency and versatile application by hand, automatic dispenser, silk-screening, transfer or stamping techniques.

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.

SPECIFICATIONS

HANDLING CHARACTERISTICS

Catalyst Number: Catalyst 106 Mix Ratio, Catalyst to Resin, by Weight: 1:20 Workable Pot Life, 100 g @ 25°C: 1 hr. Mixed Viscosity @ 25°C cps: paste Recommended Cure: 8 hrs. @ room temp. Color: silver

PHYSICAL CHARACTERISTICS

Shrinkage Linear, in / in: 0.004 Hardness, Shore D: 82 Specific Gravity, 25°C / 25°C: 2.60 Tensile Strength, psi: 8,900 Compressive Strength, psi: 13,700

THERMAL CHARACTERISTICS

Thermal Conductivity, btu / hr / ft² / $^{\circ}$ F / in: 90 Thermal Expansion Coefficient, (cm / cm / $^{\circ}$ C · 10⁻⁵): 1.9 Heat Distortion, $^{\circ}$ C: 90 Operating Temperature Range, $^{\circ}$ C: -50 to +165

ELECTRICAL CHARACTERISTICS

Volume Resistivity, ohm \cdot cm: < 0.0015

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made. In every case we urge and recommend that purchasers before using any product in full scale production make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own provisions. No representative of ours has any authority to waive or change the foregoing provisions but, subject to such provisions, our engineers are available to assist purchasers in adapting our products to their needs and to the circumstances prevailing in their business. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention governed by any patent, without the authority from the owner of this patent. We also expect purchasers to use our products in accordance with the guiding principles of the Chemical Manufacturers Association's Responsible Care® program.



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PACKAGING

E10-106 is available in:

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

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

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

Pre-measured Part A and B



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