

Bulletin

Product Product **ALFABOND 61**

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Carbon filled electrically conductive epoxy. Maximum continuity of conductivity, high adhesion; can be thinned as a coating for FRI and EMI shielding.

GENERAL DESCRIPTION

ALFABOND 61 is an epoxy adhesive and coating formulation based on conductive carbon. This versatile carbon formulation offers the maximum continuity of conductivity with an electrical resistivity value of less than 40 ohm·cm. ALFABOND 61 is also characterized by a wide operating temperature range from -50 to +170°C.

ALFABOND 65 is recommended for electronic bonding and sealing applications that require both fine electrical and mechanical properties.

ALFABOND 61 cures at room temperature or can be accelerated with mild heat to form a tenacious bond between similar and dissimilar substrates including: aluminum, copper, magnesium, steel, bronze, nickel, kovar, ceramic, glass, phenolic and G-10 epoxy glass boards.

APPLICATION

- 1. Clean and remove any dirt and grease from surfaces to be bonded.
- Mix thoroughly, by weight, 10 parts ALFABOND 61 cataylst to 100 parts ALFABOND 61 carbon resin.
- Apply and cure overnight at room temperature or cure for 1 hour at 80°C.

Cure Schedule: 24 hrs. @ Room Temp

60 minutes @ 60°C 15 minutes @ 100°C

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 Sheet. Bulletins are available on request.

SPECIFICATIONS

HANDLING CHARACTERISTICS

Catalyst Number: Catalyst 61

Mix Ratio, Catalyst to Resin, by Weight: 2:20 Workable Potlife, 100 g @ 25°C: 30 minutes

Mixed Viscosity @ 25°C cps: paste Recommended Cure: 8 hrs. @ room temp.

Color: Black

PHYSICAL CHARACTERISTICS

Shrinkage Linear, in / in: 0.003

Hardness, Shore D: 85

Specific Gravity, 25°C / 25°C: 1.50

Tensile Strength, psi: 9,500 Compressive Strength, psi: 14,000

THERMAL CHARACTERISTICS

Thermal Conductivity, btu / hr / ft²/ °F / in: 8.5 Thermal Expansion Coefficient, $(cm / cm / ^{\circ}C \cdot 10^{-5}): 1.5$ Heat Distortion, °C: 95 Operating Temperature Range, °C: -50 to +170

ELECTRICAL CHARACTERISTICS

Volume Resistivity, ohm \cdot cm: < 40

AVAILABLITY AND PACKAGING

ALFABOND 61 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

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. 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 operation conditions. 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.

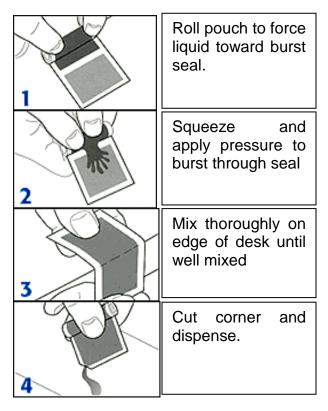


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PACKAGING

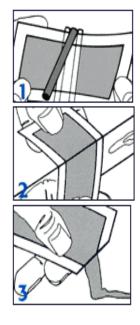
ALFABOND 65 is available in:

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



PACKAGING

3- Two Chamber Pouches Seperated by Plastic Clamp (2.5 grams, 5 grams, 10 grams)



Hold each end of pouch and pull firmly to remove plastic divider

Mix thoroughly on table top or any 90° surface until well mixed.

Cut corner and dispense. Plastic divider can also be used as an applicator

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

Pre-measured part A and B

