



G6E-NS10™ GENERAL PURPOSE SILVER-CARBON ELECTRICALLY CONDUCTIVE EPOXY

Technical Data Sheet

DESCRIPTION: G6E-NS10™ epoxy is developed for general purpose applications requiring high performance bond or connection of electrically conductive components/materials for enhanced electrical conductivity. G6E-NS10™ has been developed based on advanced proprietary technology that requires 25% or less silver content to be at par with leading silver-based epoxies in terms of electrical properties. This improvement not only reduces the cost of the material but also makes G6E-NS10™ less prone to fracture, thus allowing for stronger adhesion to the target substrate. A heating oven is strongly recommended for curing. Uses for G6E-NS10™ epoxy include electronic circuits, EMI / RFI shielding assembly and repair, etc.

FEATURES:

- Silver-Carbon Filled (Non-Magnetic)
- Good Electrical Conductivity
- Resistant to Temperature Variations
- Low Cost, Low Density
- Corrosion Resistant

TYPICAL APPLICATIONS:

- PCB Manufacture / Repair
- EMI / RFI Shielding
- Display Packaging / Bonding
- Electronics Manufacture / Repair
- Solder Replacement

SPECIFICATIONS:

TWO COMPONENT SYSTEM: Part A – smooth thixotropic dark grey paste
Part B – smooth thixotropic silver paste

MIX RATIO: 100 (Part A) to 100 (Part B) by weight.

POT LIFE: 4 hours

CURING SCHEDULE: Best results are obtained when the product is cured at one of the following schedules:
60 hours @ 25°C / 77°F
3 hours @ 70°C / 158°F
1 hour @ 150°C / 302°F

DENSITY: Part A 2.0 – 2.15 g/cm³
Part B 2.0 – 2.15 g/cm³

MIXED VISCOSITY: 150 to 155 Pa·s @ 25°C / 77°F

GLASS TRANSITION TEMPERATURE (T_g): 103°C / 217°F cured at 150°C / 302°F

HARDNESS, SHORE: >60 D

Disclaimer: The information provided is based on data and tests believed to be accurate. Graphene Laboratories, Inc. makes no warranties (expressed or implied) as to accuracy and assumes no liability in connection with any use of this product.



VOLUME RESISTIVITY: 0.005 $\Omega \cdot \text{cm}$

MIXING INSTRUCTIONS: Stir both components before use. Add Part B to Part A and mix slowly until uniform in a separate container.

STORAGE & SHELF LIFE: 6 months @ 25°C / 77°F in unopened, unmixed containers. Stores and ships at room temperature. No freezing is required.

SHIPPING & HANDLING: Always read both SDS before use. Use product with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

ABOUT G6-EPOXY™: All G6-EPOXY™ specifications are for normal use and routine applications. Please consult with our team to ensure the most appropriate selection of G6-EPOXY™ products. Depending upon your application requirements, a custom G6-EPOXY™ formulation may be available.

G6-EPOXY™ is a trademark owned by Graphene Laboratories, Inc.

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PATENT PENDING

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