

# GRAPHENE ENHANCED CONDUCTIVE ADHESIVES

**G6-EPOXY®** G6 Epoxy offers a broad range of electrically conductive adhesives based on proprietary fillers. In our formulations, we extensively use nanomaterials, especially graphene, which profoundly enhance the performance of epoxy resins.



Reduced flammability with improved thermal and UV stability



Superior resistance to stress, corrosion, cracking and fatigue



Improved mechanical properties such as tensile strength and stiffness



Improved electrical properties



Reduced density, weight, and cost of epoxy resins



Improved operational safety and cured epoxy durability



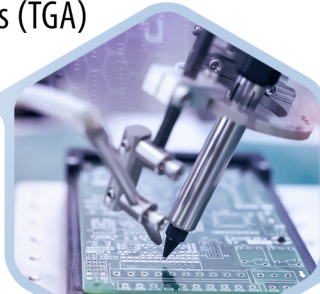
## Analytical and quality control facilities

Our production and QC facility includes a state-of-the-art analytical and materials-testing laboratory for quality testing and certification of raw materials, intermediate components and end-product formulations and composites.

## IN-HOUSE ANALYTICAL CAPABILITIES INCLUDE:

- ▶ Rheology / Dynamic Mechanical Analysis (DMA)
- ▶ Raman Spectroscopy
- ▶ Optical Microscopy
- ▶ Thermal Conductivity measurements
- ▶ Four-probe conductivity measurements
- ▶ Universal Test Station for mechanical testing of materials
- ▶ Thermogravimetric Analysis (TGA)

Visit us at [www.g6-epoxy.com](http://www.g6-epoxy.com)



## EXPLORE OUR CATALOGUE

Three Families of unique, proprietary blends of conductive fillers:

### Silver/Graphene SG-Series

Silver and Graphene fillers with outstanding mechanical and electrical properties. Blends add durability, resistance to fatigue and cracking while improving electrical and thermal properties.

### Low Silver NS-Series (PATENT PENDING)

Silver/nano-silver/nano-carbon blends with low silver content. Less dense and viscous, with stronger substrate adhesion than traditional silver formulations, yet keeps conductivity high.

### Nanocarbon P-Series

High-performance mix of distinct nano-carbons achieve superb electrical properties for non-conductive epoxies (~5 Ω·cm). Cost-effective, low density, durable, and impact/shock resistant.

Our specialty fillers are the basis for our current line of 12 unique epoxies within four specialized categories:

**GENERAL PURPOSE** – excellent for electronic components, with high bonding strength to most substrates, and good workability.

**FLEXIBLE** – applications requiring a flexible, conductive bond.

**HIGH-TEMPERATURE** – service temperatures up to 316°C/600°F.

**ROOM TEMPERATURE** – rapid bonding at RT for sensitive electronic components.



## QUALITY MADE AT ISO 9001 CERTIFIED FACILITY

The high quality of our products starts with the combined decades of experience of our scientific and technical team in graphene technology and related materials. All G6-EPOXY® products are made, and quality is checked, according to ISO 9001 standards.

## CUSTOM FORMULATIONS

G6-EPOXY® team members are dedicated to customer requirements. All G6-EPOXY® products are manufactured and packaged in our facility located on Long Island, New York. Custom formulations and packaging are especially interesting and may be available upon request. With a wealth of field-based experience with graphene and other 2-D materials, we have developed custom formulations that for electronics, marine, auto, and military technologies.

[www://](http://www.g6-epoxy.com)

Visit us at [www.g6-epoxy.com](http://www.g6-epoxy.com)

**Contact Us: Graphene Laboratories, Inc.**  
**Address: 760 Koehler Avenue, Suite #2 Ronkonkoma, New York 11779**  
**Phone: 1(631) 405-5115 Fax: 1(781) 287-1248**  
**Website: [www.g6-epoxy.com](http://www.g6-epoxy.com) Email: [info@graphenelab.com](mailto:info@graphenelab.com)**



## INTERESTED IN GRAPHENE MATERIALS?

Graphene Supermarket is the "One-Stop-Shop" for all your graphene-like materials and graphene-related products and supplies. We offer a wide range of trial-sized graphene and 2D materials perfect for academic research, corporate R&D centers, and industrial groups looking to impact various technologies and applications research. Graphene Supermarket produces over 90 products, including:

- ▶ Graphene Oxide
- ▶ Graphene Nanoplatelets (GNPs)
- ▶ 2D Graphene-like Materials
- ▶ CVD Graphene
- ▶ Carbon Materials
- ▶ Graphene Sheets TEM Grids
- ▶ R&D Supplies
- ▶ Conductive Epoxies
- ▶ And many more

**G6-EPOXY®** is a registered trademark of Graphene Laboratories, Inc.

[www://](http://www.graphene-supermarket.com)

Visit us at [www.graphene-supermarket.com](http://www.graphene-supermarket.com)

