

Product Overview

GraphNova specializes in high-quality graphene-based materials, leveraging patented mechano-high-pressure exfoliation technology to produce Very-Few-Layer Graphene (vFLG), Few-Layer Graphene (FLG), and Graphene Nanoplatelets (GNP) powders and dispersions. Our products serve applications in electronics, energy storage, coatings, sensors, and biomedical devices, offering industry-leading performance in thermal stability, conductivity, and mechanical strength.

Product Lineup*

Product name	Novanite Alpha	Novanite Sigma	Novanite Omega
Type	Graphene-Nano-Platelets (GNP)	Few-Layers-Graphene (FLG)	Very-Few-Layers-Graphene (vFLG)
Form	Fine Powder	Water/Solvent Dispersion	Water/Solvent Dispersion
Application examples	Composites, electronics, and biomedical devices	Coatings, electronics, antennas, sensors, and energy storage	Li-Ion Batteries, printed Electronics, Sensors
Graphene Content	>98% carbon	2-5 wt. %	0.2-0.5 wt. %
Solid Content		5-10 wt. %	0.7-1.0 wt. %
Manufacturing	High-crystalline natural graphite exfoliation	Liquid-phase exfoliation from natural graphite	Liquid-phase exfoliation from natural graphite
Particle Size	Lateral 1-5 microns; Z-axis 7-10 layers (2.5 nm thickness)	Layers ~3-5 (nm); Lateral size up to 5 microns	Layers ~2-5 nm

*The above represent typical values; all products unfunctionalized.

Key Features Across Products:

- **High Conductivity & Stability:** Each product offers superior electrical and thermal conductivity.
- **Eco-Conscious Manufacturing:** All products are derived from natural graphite with no added functionalization.
- **Versatile Application Potential:** Suitable for energy, electronics, biomedical, and industrial sectors.

Contact Information:
For detailed technical data, application support, and ordering information, please contact Graph-Nova's customer service.

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