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## **Grat-G1L: High quality graphene powder with Large aspect ratio**

## **About Grat-G1L**<sup>™</sup>

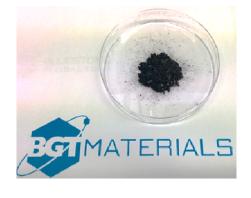
BGT Materials' Grat-G1L products consist of high quality graphene powder, comprising well-exfoliated mono and few-layer graphene. Grat-G1L is prepared using our proprietary top-down approach allowing multiple desirable features, including high aspect ratios and low oxygen content. Grat-G1L can be used in a wide range of applications such as transparent conductive coatings, composites and chemical sensors.

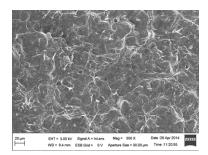
## Features & benefits

- Well exfoliated material
- Low oxygen content
- Large lateral dimensions
- Ease of handling and processing
- Batch-to-batch product consistency

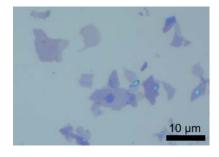
## **Technical Specs**

Product Analysis	
Supplied as	Powder or dispersion (0.1g/L in water or NMP)
Composition	Carbon (> 90.0 %), Oxygen ( < 10%)
Flake lateral dimensions	2.5 μm equivalent diameter
Flake thickness	43% monolayer, 25% bilayer, 17% trilayer, 15% quad layer (or more).

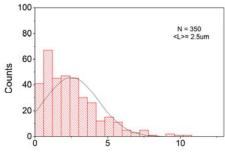




Low magnification scanning electron micrograph showing the morphology of a graphene laminate.



Flakes dropcasted from an NMP dispersion on a Si-SiO<sub>2</sub> substrate.



Flake equivalent diameter (µm)

Flake size distribution with an average equivalent diameter of 2.5  $\mu m$ .

The statement, technical data and recommendations contained herein are based on our investigation and experience, and are believed to be accurate as of the date hereof. In view of the many factors that may affect processing and application of our product beyond our control, BGT Materials expressly disclaims all obligation and liability as to any results obtained or arising from any use of the product or reliance on such information. Neither do these data imply any warranty of certain properties, nor the suitability of the product for any particular purpose. The information provided herein relates only to the specific product designated and may not be applicable when such product is utilized in combination with other additives or in any process. The product should be stored in a cool, dry environment away from excess humidity, preferably in an inert atmosphere. Aggregation may occur.