



Graphene Powder

(Functional Hydroxyl)

Product Catalogue

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Working

Graphene is ideally only one-atom-thick and formed from hexagonally connected carbon atoms. These share a single electron with three other carbon atoms, leaving one electron free for adequate electrical conductivity. It is black, with a thickness of around 5-10 nanometers and a lateral dimension of 5 to 10 microns. We make a Hydroxyl (OH) functionalized Graphene from Graphene on which further treatment is done to introduce the (OH) group at the edges and surfaces with extra purity. There are 5 to 10 layers in the research-grade graphene nanopowder.

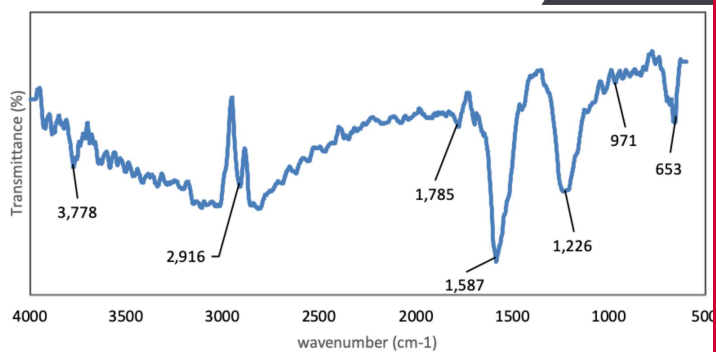
Product Code: Hydroxyl-Graphene

Technical Properties:

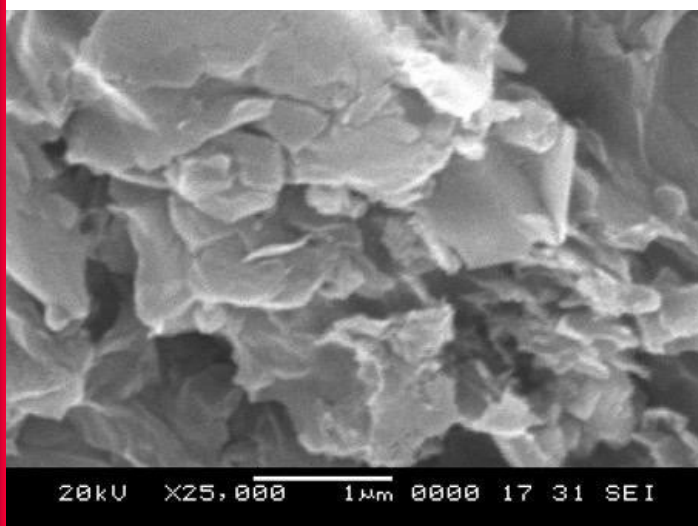
<i>SPECIFICATIONS</i>	<i>VALUES</i>
Bulk Density	0.35 g/cm ³
Diameter Average X &Y Dimensions	5-10 μ m
Thickness Average Z Dimension	5 - 10 nm
Carbon Purity	>99%
Form Factor	Powder
Colour	Black
Number of Layers	Average number of Layer 5 - 10 layers
Surface Area	60-200 m ² /g
Physical Form	Fluffy, Very Light Black Powder
Chemical Formula	C
Cas No.	7782-42-5

Characterization Analysis

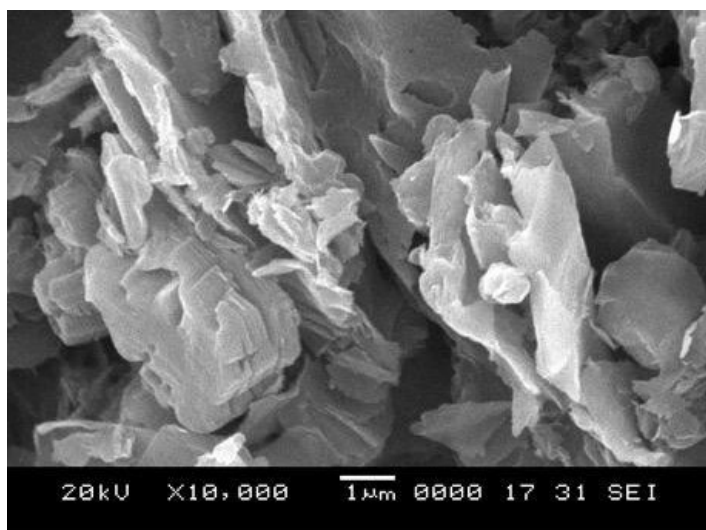
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SEM



Applications

- Antibarrier Coating
- Conductive Inks
- EMI Shield Coating
- Electronics Industries
- Advance Concrete
- Anti-corrosion paints & coatings
- Improve the properties of polymers composite
- Improve the properties of the thermoset
- Improve the properties of thermoplastic
- Improve the electrical and mechanical properties of Paint and Coating

Features

- Improves electrical conductivity
- Improves Thermal conductivity
- Improves mechanical stability
- Dispersed Easily
- Excellent Compatibility with the polar solvent and polymer
- High purity
- Small Addition will improve the properties of the matrix

Safety Instructions

- Protective gloves should be worn at the time of operation.
- Safety goggle is a must during handling.
- Do not touch any part of the skin or eyes while using.
- Store in a moisture-proof dry place.

Packaging

It is supplied in a highly-protective moisture-proof bottle with a seal. It is finally packed in a shockproof sheet with a corrugated box.

Handling

When handling, the researcher should use powder-free non-latex gloves, which should be held carefully. While experimenting, if the operator uses a nanopowder with bare hands, the chances of contamination due to finger oil are very high. Therefore, it is advised to use nylon or polyester gloves.



Feel Free to Reach Us

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