

Technical Data Sheet

AMINBIC Graphene Oxide

Contact Information

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Description

Graphene Oxide is a single-atomic-layered material, made by the powerful oxidation of graphite, which is cheap and abundant. It is dispersible in water and other solvents due to the oxygen in its lattice. The material basically consists of exfoliated graphene nanoplatelets containing functional organic groups. The oxygen content is less than 5%; the majority groups are hydroxyls (OH), which enables further chemical modifications to add new functionalities. The functionalization approach was designed to attach most of the groups on the border of the foils, aiming to preserve the intrinsic properties of graphene (e.g.: electric conductivity).

Applications

Potential applications include:

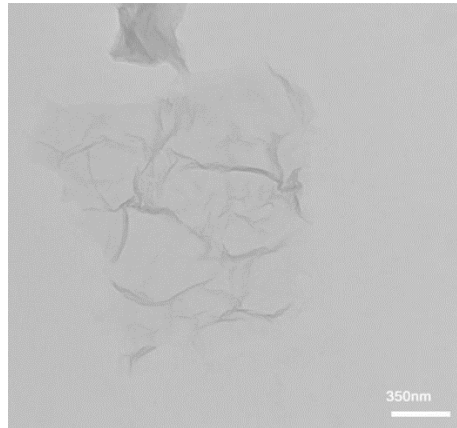
- Nanocomposites
- Anti-corrosion coatings
- Films with barrier properties
- Membranes for separation
- Conductive inks
- Energy storage
- Optical Biosensor
- Drug and gene delivery

Packaging Information

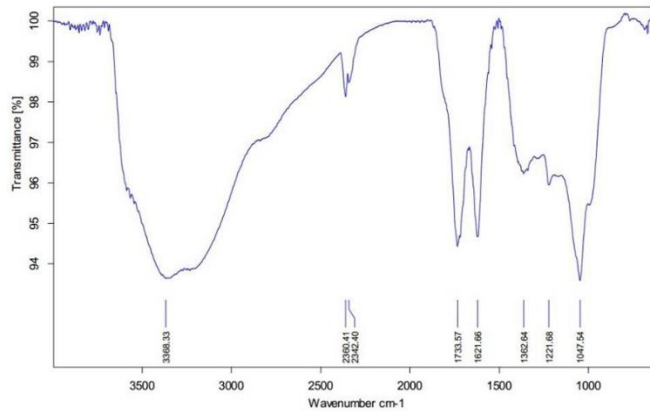
Cat. No.	Packing	Formation	Amount	Solvent
GM110025	Bottle	Colloid	25 mL	DIW
GM110050	Bottle	Colloid	50 mL	DIW
GM110500	Bottle	Colloid	500 mL	DIW

Characterizations

Concentration	Water (wt%)	Dispersant	Color	Flake Diameter	Thickness	Single-layer Ratio
2 mg/ml	99.9	0.1	Brown/ Black	0.4 - 5.0 μ m	0.6-1.2 nm	>80%



Typical TEM Image of AMINBIC Graphene Oxide



Typical FTIR Image of AMINBIC Graphene Oxide

Ordering Information

Pricing: Contact Sales Department

Availability: Available

Disclaimer

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Headquarter



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