



Borhan Nano Scale Innovators Knowledge-Based Co.

Graphene Oxide (GO) Nanosheet

Introduction

GO is a unique material that is a single monomolecular layer of graphite with various oxygen containing functionalities such as epoxide, carbonyl, carboxyl and hydroxyl groups. GO is the solution processable precursor for bulk production of graphene based materials and devices. GO is amphiphilic in nature, it also forms highly stable emulsions of organic solvents.

Specifications

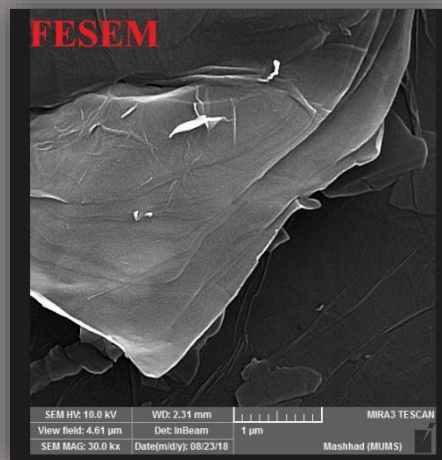
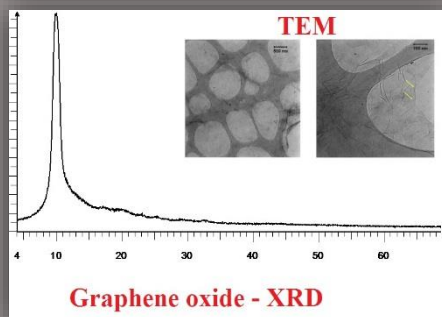
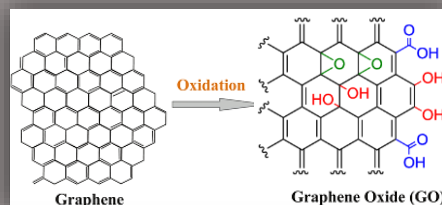
Chemical composition	$C_xO_yH_z$
Morphology	Sheet
Thickness (nm)	Less than 2
Length (μm)	2
Color	Black
Form	Flakes
Product No.	763713

Applications

- Microwave absorbing material
- Drug and gene delivery systems
- Tissue engineering
- Energy storage (lithium ion batteries, Supercapacitors)
- Composite materials
- Field effect transistors
- Electronics (Transparent electrode, Hole transport layer in polymer solar cells and LEDs, Dye-sensitized solar cells and organic solar cells)
- Biosensors (electrochemical and optical)
- Water purification

Advantages

- High current density
- Ballistic transport (highest electron transfer rate)
- Very high electron mobility at room temperature
- Chemical ineffectiveness
- High thermal and electrical conductivity
- Extraordinary light transmission and hydrophobicity



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