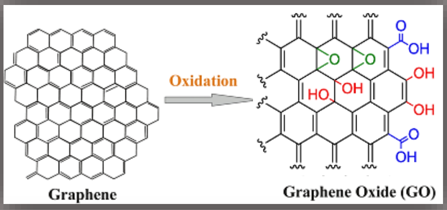
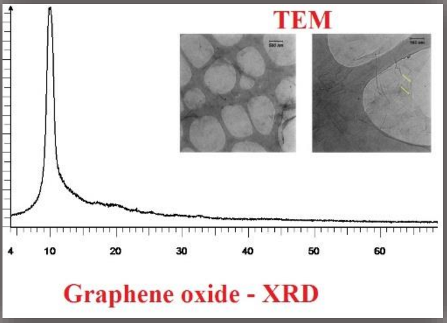
Borhan Nano Scale Innovators Knowledge-Based Co.

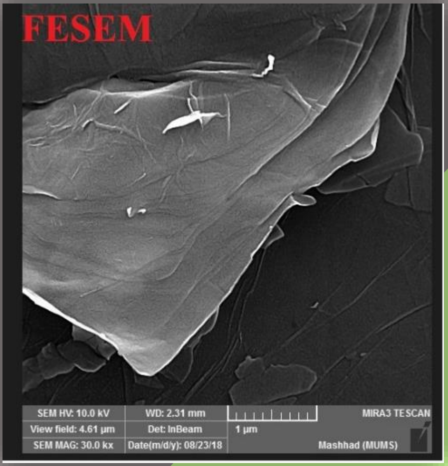
Graphene Oxide (GO) Nanocolloid

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. It has unique mechanical, optical, thermal and electrochemical properties.







Specifications

Chemical composition	$C_xH_yO_z$
Concentration (mg/ml)	1,2,5,10,20
Morphology	Sheet
Thickness (nm)	Less then 2
Length (μm)	1-5
Color	Brown/Black
Form	Liquid
Product No.	795534

Applications

- Microwave absorbing material
- Nanomedicine and Drug delivery systems
- Cellular imaging
- 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
- Water purification

Advantages

- High current density
- Ballistic transport (highest electron transfer rate)
- Very high electron mobility at room temperature
- High thermal conductivity
- Extraordinary light transmission
- Hydrophobicity

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