

MATERIAL DATASHEET

PRODUCT: GRAPHENE OXIDE

SECTION 1: Product and Company Identification

Product name: Graphene Oxide, water dispersion
Synonyms: GO dispersion in water
Manufacturer: Danubia NanoTech s.r.o.
Ilkovičova 3
84104 Bratislava
Slovakia
Phone: +421264282144

Chemical name: Graphene Oxide
Product use: Laboratory chemicals
CAS Registry No.: 7782-42-5

SECTION 2: Basic Properties

Appearance:	Light brown when dispersed in water
Odour:	Odourless
Melting point:	Powder melts above 3000°C.
Bulk density:	Approx. 1 g.cm ³
Solubility in water:	Dispersible in water.
Stability:	Stable on air.

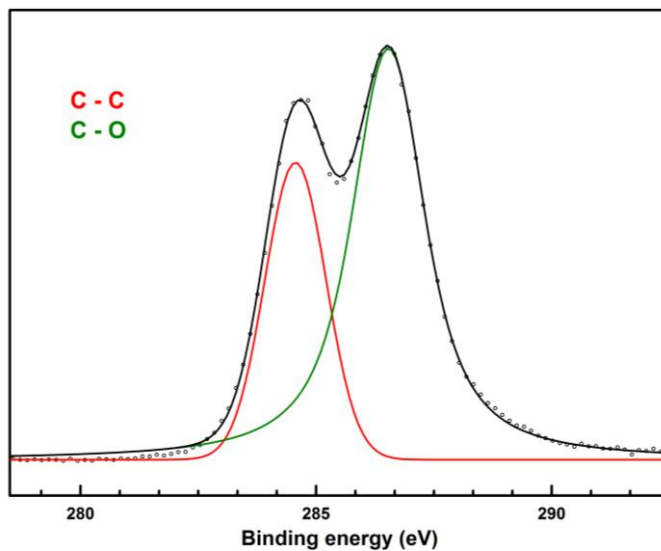
SECTION 3: Elemental Analysis

Carbon	65 – 69 %
Oxygen	29 – 33 %
Sulphur	≈ 1 %
Nitrogen	< 1 %

SECTION 4: Physical properties

Photoelectron spectroscopy (XPS)

XPS spectrum of graphene oxide deconvoluted into components.



Scanning electron transmission microscopy (STEM)

STEM image of a graphene oxide flake showing almost unperturbed hexagonal graphene lattice. Light structures in the figure are carbon impurities induced by the electron beam.

