

MATERIAL DATASHEET

PRODUCT: GRAPHENE OXIDE

SECTION 1: Product and Company Identification

Product name: Synonyms: Manufacturer:	Graphene Oxide, solid form GO paper Danubia NanoTech s.r.o. Ilkovičova 3 84104 Bratislava Slovakia
Phone:	+421264282144
Chemical name: Product use: CAS Registry No.:	Graphene Oxide Laboratory chemicals 7782-42-5

SECTION 2: Basic Properties

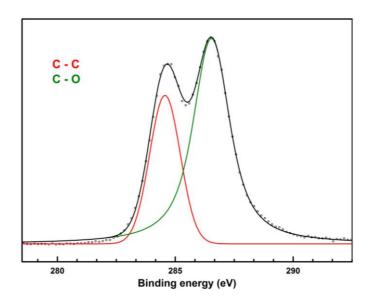
Appearance:	Graphene oxide paper produced by a vacuum filtration
Thickness:	~ 25 μm
Odour:	Odourless
Melting point:	Powder melts above 3000°C.
Bulk density:	Approx. 1 g.cm ³
Stability:	Stable on air.

SECTION 3: Elemental Analysis

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

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.

