

MATERIAL DATASHEET

PRODUCT: REDUCED GRAPHENE OXIDE

SECTION 1: Product and Company Identification

Product name: Chemically reduced Graphene Oxide
Synonyms: rGO powder
Manufacturer: Danubia NanoTech s.r.o.
Ilkovičova 3
84104 Bratislava
Slovakia
Phone: +421264282144

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

SECTION 2: Basic Properties

Appearance:	Black powder
Odour:	Odourless
Melting point:	Powder melts above 3000°C.
Bulk density:	Approx. 1 g.cm ³
Solubility in water:	Not soluble.
Stability:	Stable on air.

SECTION 3: Elemental Analysis

Carbon	> 82 %
Oxygen	< 10 %
Nitrogen	~ 3 %
Iodine	~ 3 %
Sulfur	< 1 %

SECTION 4: Physical properties

Photoelectron spectroscopy (XPS)

XPS spectrum of chemically reduced graphene oxide. The spectrum has one principal component due to sp^2 coordinated carbon.

