

## MATERIAL DATASHEET

### PRODUCT: REDUCED GRAPHENE OXIDE

#### SECTION 1: Product and Company Identification

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**Product name:** Chemically reduced Graphene Oxide  
**Synonyms:** rGO paper  
**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

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<b>Appearance:</b>	Chemically reduced graphene oxide paper
<b>Thickness:</b>	~ 20 $\mu\text{m}$
<b>Odour:</b>	Odourless
<b>Melting point:</b>	Powder melts above 3000°C.
<b>Bulk density:</b>	Approx. 1 g.cm <sup>3</sup>
<b>Solubility in water:</b>	Not soluble.
<b>Stability:</b>	Stable on air.

#### SECTION 3: Elemental Analysis

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

## SECTION 4: Physical properties

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### Photoelectron spectroscopy (XPS)

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

