

PRODUCT DATASHEET

PROPERTIES

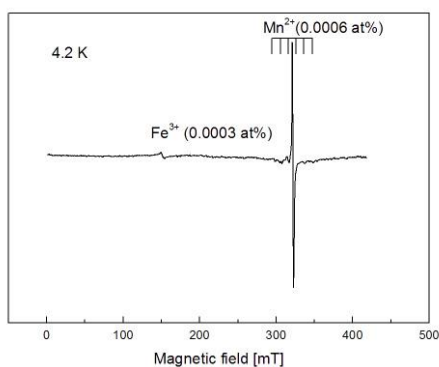
FORM	Extra-large Graphene Oxide flakes
PRODUCTION METHOD	Modified Hummers' method
SOLVENT	Water
COLOR	Brown
TYPICAL FLAKE DIAMETER	5-30 μm
THICKNESS OF A SINGLE LAYER	0,8-1,2 nm

ELEMENTAL ANALYSIS*

*measurements for sample dried at 60°C

CARBON	40-50 %
OXYGEN	39-49 %
HYDROGEN	1-4 %
SULFUR	<2%
NITROGEN	<1%

NO CONTAMINATION OF MANGANESE



Manganese content: 0,0006%

Careful washing process provides high purity of graphene oxide dispersion. Manganese amount was measured using EPR (electron paramagnetic resonance) to verify the high purity of the material. Mn contamination is, due to the production process, the common defect of commercially available graphene oxide. Because of the high purity, the product does not show toxicity in living cells.

LARGE GRAPHENE OXIDE FLAKES

Typical diameter of GO flakes: 5-30 μm

The synthesis method allows for obtaining large, monolayer graphene oxide flakes. The oxidation process is repeatable and ensures full oxidation, confirmed by elemental analysis during quality control

