Strem Chemicals, Inc.

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Catalog # 06-2545 Graphene oxide (4 mg/mL water disersion)

Physical Properties:

Form: Dispersion of graphene oxide sheets

Sheet dimension: Variable Color: Yellow-brown

Dispersibility: Polar solvents

Solvent: Water pH: 2.2-2.5

Concentration: 4 mg/mL

Monolayer content (measured in 0.5 mg/mL): >95%*

*Note: 4 mg/mL tends to agglomerate the GO flakes and dilution followed by slight sonication is required in order to obtain a higher percentage of monolayer flakes

Elemental Analysis: (sample preparation: 2 g of 4 wt% GO in water were dried under vacuum at 60°C overnight)

Carbon: 49-56% Hydrogen: 0-1% Nitrogen: 0-1% Oxygen: 41-50% Sulfur: 0-2%

Quality Control:

Amount of residue on evaporation

pH control

Elemental analysis

<u>Applications:</u> Graphene/polymer composite materials, batteries, biomedical, solar cells, supercapacitors, support for metallic catalysts, low permeability materials, biosensors, multifunctional materials, graphene research

References:

- 1. J. Mater. Chem., 2011, 21, 9762.
- 2. Environ. Sci. Technol., 2013, 47, 3715.
- 3. Phys. Chem. Chem. Phys., 2013, 15, 2321.





