Strem Chemicals, Inc. www.strem.com

Catalog # 06-2550 Graphene oxide, reduced

Physical Properties:

Form: powder
Reduction method: chemically reduced
Sheet dimension: variable
Color: black
Solubility: insoluble
Dispersability: <0.1 mg/mL in NMP, DMF, DMSO
Humidity (Karl Fisher, TGA): 3.7-4.2%
Electrical conductivity: 666,7 S/m (measured in a 20 nm film thickness)
BET surface area: 422.69 – 499.85 m^2/g
Density: 1.91 g/cm^3

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

Carbon: 77-87%
Hydrogen: 0-1%
Nitrogen: 0-1%
Oxygen: 13-22%
Sulfur: 0%

Quality Control: Elemental analysis

Applications: Batteries, biomedical, solar cells, supercapacitors, printable graphene electronics, graphene research

References:

1. *Nano Letters*, **2010**, *10*, 92.
2. *J. Phys. Chem. Lett.*, **2013**, *4*, 1347.