

# REDUCED GRAPHENE OXIDE

## Product Specifications

**Product:** Reduced Graphene Oxide

**Description:** This product is black in color and odorless. Successful incorporation of reduced graphene oxide into specific solvents or hosts is dependent on the oxidation state and this sample prefers non-polar or hydrophobic hosts. Sonication is recommended for aiding dispersion in solvents. Additional information regarding incorporation into a variety of hosts can be provided by Garmor.

**State:** Solid powder (black)

**Particle Size:** The particle size can be tailored based on the starting material and processing conditions. For standard conditions, particle size analysis shows a Gaussian-like distribution of particle sizes as determined by dynamic light scattering with a nominal particle size diameter of 500nm with 90% of the particle sizes below 800nm in diameter.

**Layers:** Less than 10 layers thick (95% of material)

**Composition:** Oxygen: 1-2% (dehydrated sample)

Non-oxygen composition:

Carbon:	>99.8%
Silicon:	< 40 ppm
Phosphorous:	< 200 ppm
Sulphur	< 60 ppm
Potassium:	< 5 ppm
Calcium	< 30 ppm
Chromium	< 125 ppm
Manganese:	< 10 ppm
Iron	< 900 ppm
Nickel	< 20 ppm
Copper	< 5 ppm
Zinc:	< 2 ppm

