



Technical Data Sheet

ACS Material Large-Size Graphene Oxide

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Revision: 100319

1. Preparation Method

Hummers Method

2. Characterizations

Appearance:	Brownish grey powder
Thickness:	~1 nm
Monolayer Diameter:	5-40 μm
pH (1mg/mL):	~2.88
Monolayer Rate:	>95%
BET:	~207 m^2/g
Carbon Content:	~42 wt.%
Oxygen Content:	~54 wt.%
Sulfur Content:	<1.5 wt.%
Ash Content:	<1.0 wt.%
BET:	~207 m^2/g
Grain Size:	<80 mesh

- **Attention:** Using an ultrasonic dispersion equipment to peel ACS Material Large-Size Graphene Oxide, will to some extent, lead to a corresponding reduction in the diameter size. Therefore, it is recommended to use a relatively gentle stripping treatment such as mechanical stirring.

3. Application Fields

Graphene and polymers manufacture, water purification, flexible rechargeable battery electrode, optically transparent films, papers, sensors, nanocarriers for metal catalysis, anti-electrostatic additives, adsorption material and biomedicine *etc.*

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