



Technical Data Sheet

ACS Material Low-Defect Graphene Oxide

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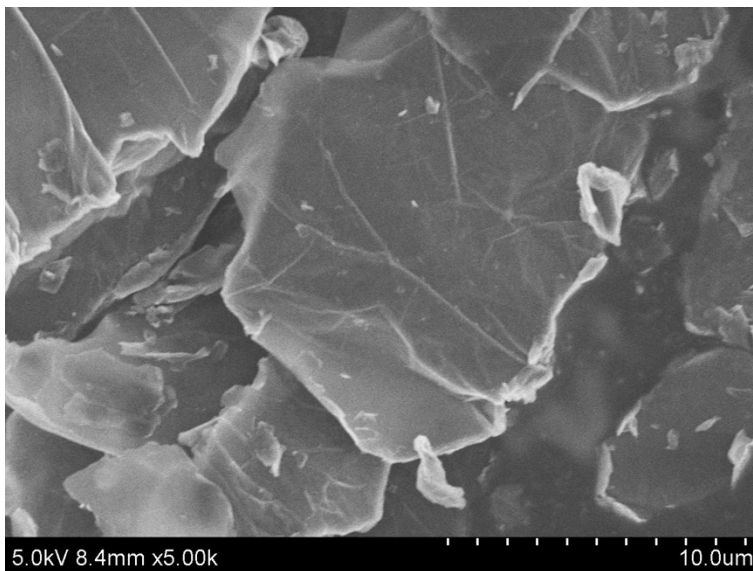
Revision: 122117

1. Preparation Method

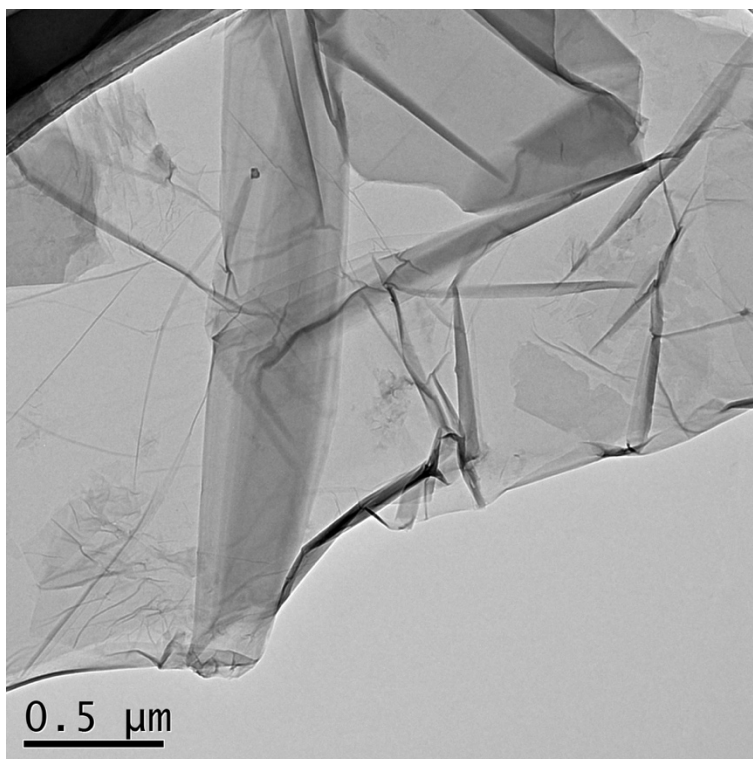
HI Chemical Reduction and High-Temperature Thermal Reduction

2. Characterizations

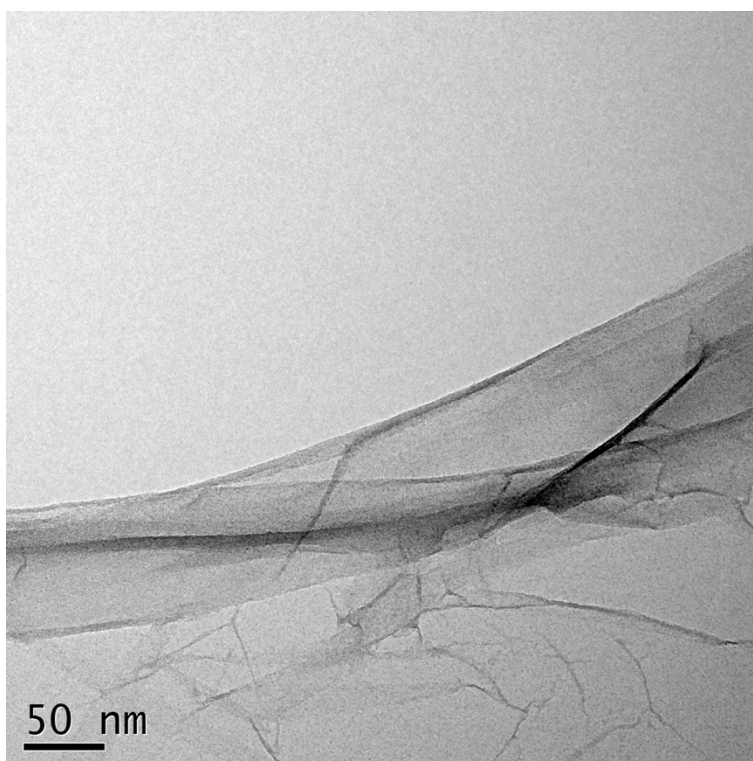
Appearance:	Brownish Grey Powder
Lateral size:	0.5-20 μm
pH (1mg/mL):	~2.73
Singer layer Ratio:	>95%
Carbon Content:	~44.5 wt.%
Oxygen Content:	~48.9 wt.%
Sulfur Content:	<1.5 wt.%
Ash Content	<1.0 wt.%
Tap Density:	~0.27 g/mL
Grain Size:	<80 mesh



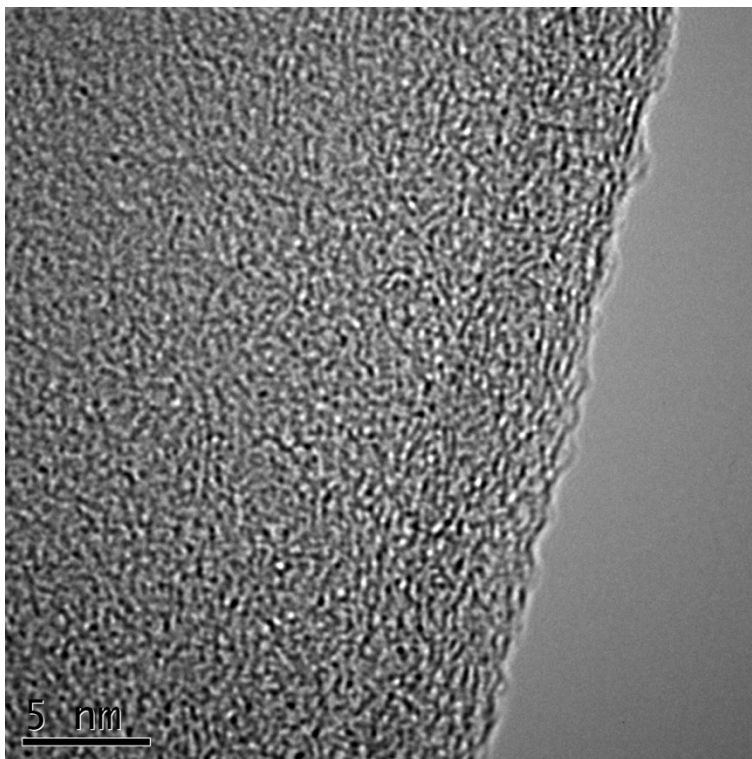
Typical SEM Image of ACS Material Low-Defect Graphene Oxide



Typical TEM Image (1) of ACS Material Low-Defect Graphene Oxide



Typical TEM Image (2) of ACS Material Low-Defect Graphene Oxide



Typical TEM Image (3) of ACS Material Low-Defect Graphene Oxide

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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