

Technical Data Sheet

ACS Material Low-Defect Graphite Oxide

Table of Contents

- 1 Preparation Method
- 2 Characterizations
- 3 Application Fields

Contact Information:

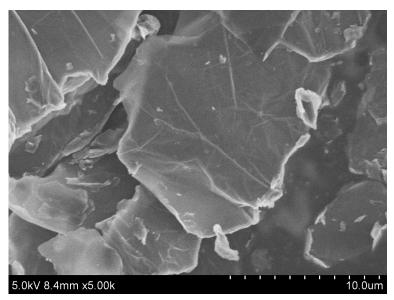
Manufacturer: ACS Material, LLC. Address: 959 E Walnut St., Suite 100 Pasadena, CA 91106, USA Phone: (866)-227-0656 Fax: (781)-518-0284 E-Mail: contact@acsmaterial.com Revision: 122117

1. Preparation Method

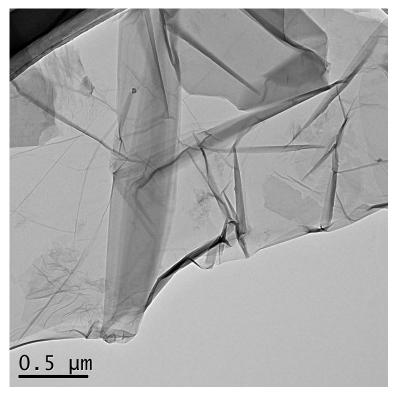
HI Chemical Reduction and High-Temperature Thermal Reduction

2. Characterizations

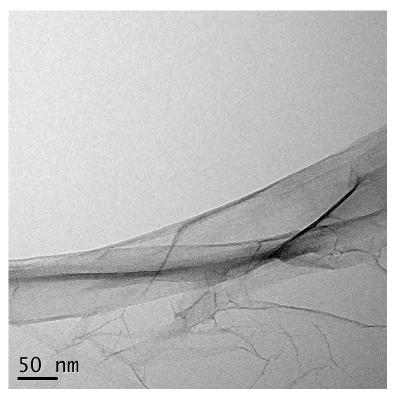
Appearance:	Brownish Grey Powder
Lateral size:	0.5-20 μm
pH (1mg/mL):	~2.73
Singer layer Ratio:	>95%
Carbon Content:	~44.5 wt.%
Oxygen Content:	~48.9 wt.%
Sulfur Content:	<1.5 wt.%
Ash Content	<1.0 wt.%
Tap Density:	~0.27 g/mL
Grain Size:	<80 mesh



Typical SEM Image of ACS Material Low-Defect Graphite Oxide

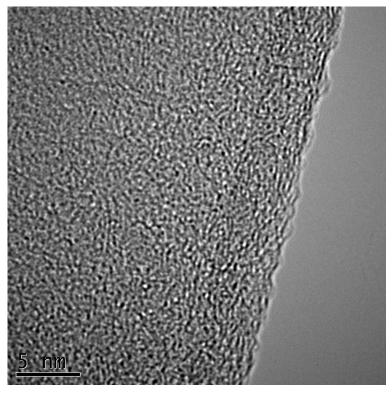


Typical TEM Image (1) of ACS Material Low-Defect Graphite Oxide



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

TDS



Typical TEM Image (3) of ACS Material Low-Defect Graphite 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*.

Disclaimer: ACS Material, LLC believes that the information in this Technical Data Sheet is accurate and represents the best and most current information available to us. ACS Material makes no representations or warranties either express or implied, regarding the suitability of the material for any purpose or the accuracy of the information contained within this document. Accordingly, ACS Material will not be responsible for damages resulting from use of or reliance upon this information.