



Technical Data Sheet

ACS Material Hydroxyl Functionalized Graphene

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

Phone: (866)-227-0656

Fax: (781)-518-0284

E-Mail: contact@acsmaterial.com

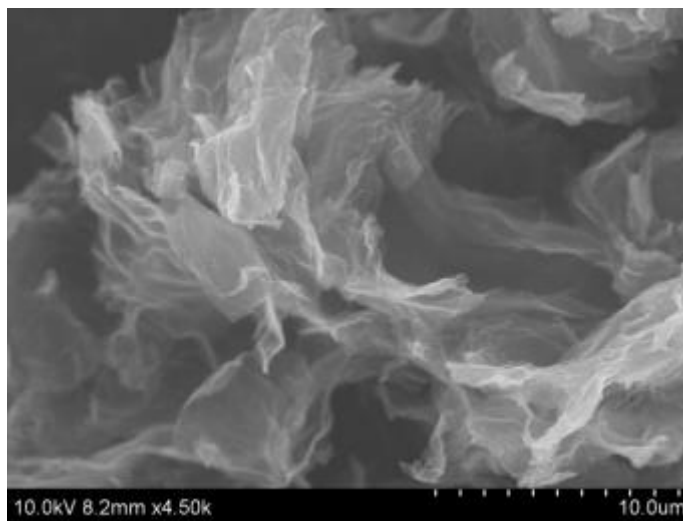
Revision: 050917

1. Preparation Method

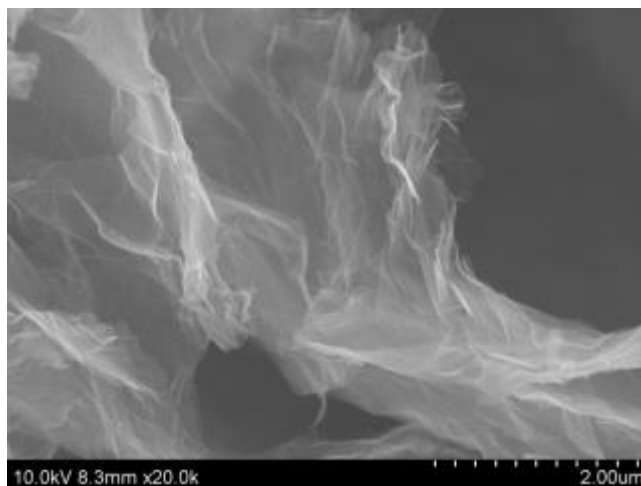
Chemical Vapor Deposition (CVD) Method

2. Characterizations

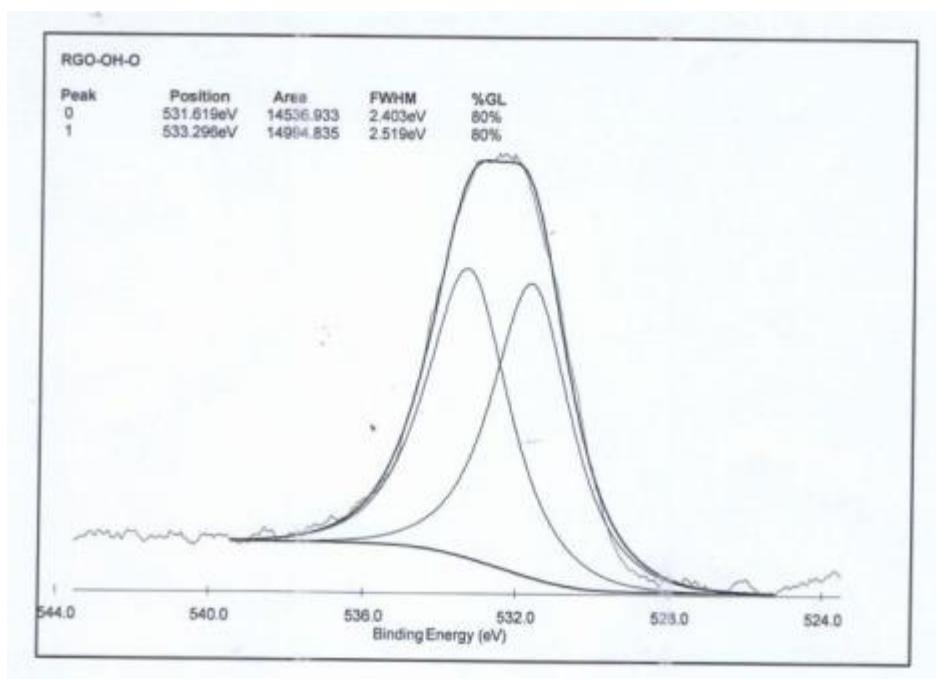
Purity:	>98%
Color:	Black
Layers:	<10
Thickness:	0.55 - 3.74 nm
Diameter:	0.5 - 3 μm
Oxygen content:	>10 wt%

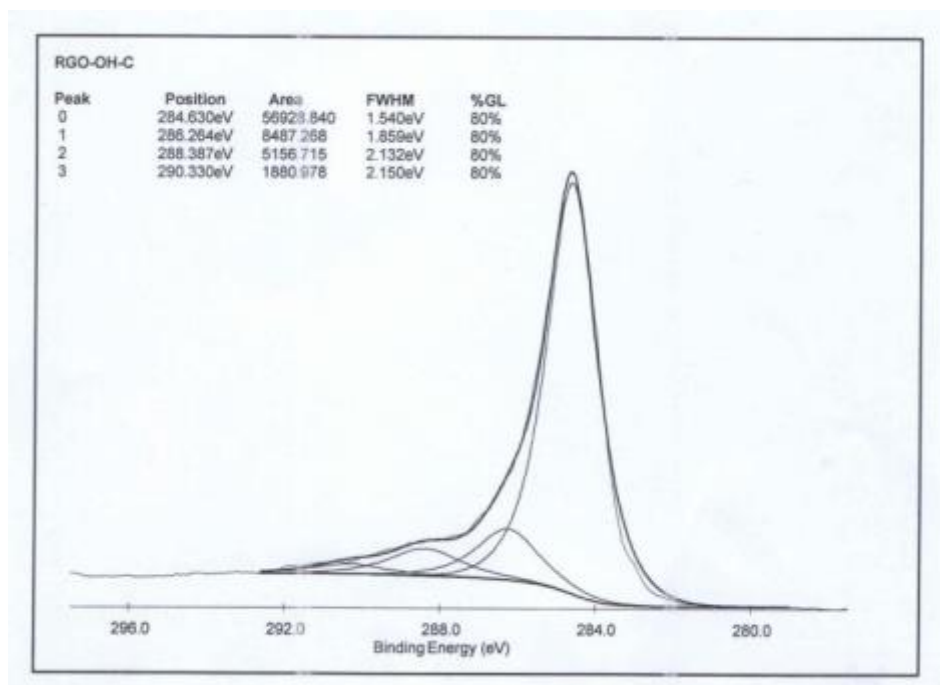


Typical SEM Image of ACS Material Hydroxyl Functionalized Graphene



Typical SEM Image of ACS Material Hydroxyl Functionalized Graphene





Typical XPS of ACS Material Hydroxyl Functionalized Graphene

Element Analysis of ACS Material Hydroxyl Functionalized Graphene

Components	Area(CPS)	Contents	Components
C	72453.7	0.25	86.63%
O	29531.8	0.66	13.37%

3. Application Fields

- 1) Additives in polymers
- 2) Catalysts
- 3) Lithium-battery anodes
- 4) Nanotube composites (by filling or coating)
- 5) Drug delivery

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.