

Technical Data Sheet

ACS Material Carbon Nanotubes, Multi-walled, Nitrogen-doped (MWCNTs)

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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: 042117

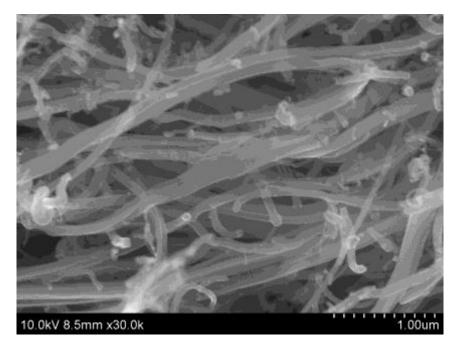
1. Preparation Method

Chemical Vapor Deposition (CVD) Method

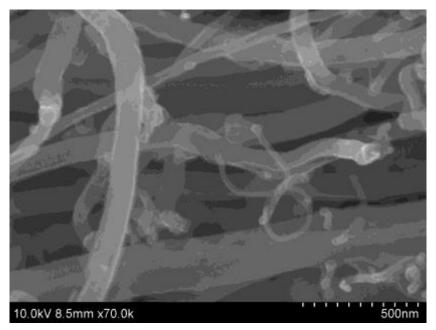
2. Characterizations

Purity:	>98%
Color:	Black
Outer Diameter:	40-100 nm
Length:	10-30 um
Special Surface Area:	>78.9 m ² /g
Ignited temperature:	460°C
Tap density:	0.27 g/cm^3
Electric Conductivity:	>100s/cm

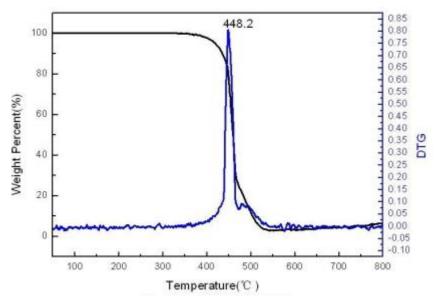
Components	Area(CPS)	Contents	Components
С	8000	0.25	91.63%
0	1300	0.66	5.64%
Ν	400	0.42	2.73%



Typical SEM Image of ACS Material Carbon Nanotubes, Multi-walled, Nitrogen-doped



Typical SEM Image of ACS Material Carbon Nanotubes, Multi-walled, Nitrogen-doped



TGA Analysis of ACS Material Carbon Nanotubes, Multi-walled, Nitrogen-doped

3. Application Fields

- 1) Catalysts
- 2) Lithium-battery anodes
- 3) Nanotube composites (by filling or coating)
- 4) Supercapacitor

5) Drug delivery

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