



Technical Data Sheet

ACS Material Graphitized Multi-Walled Carbon Nanotubes (Graphitized MWNTs, >50 nm)

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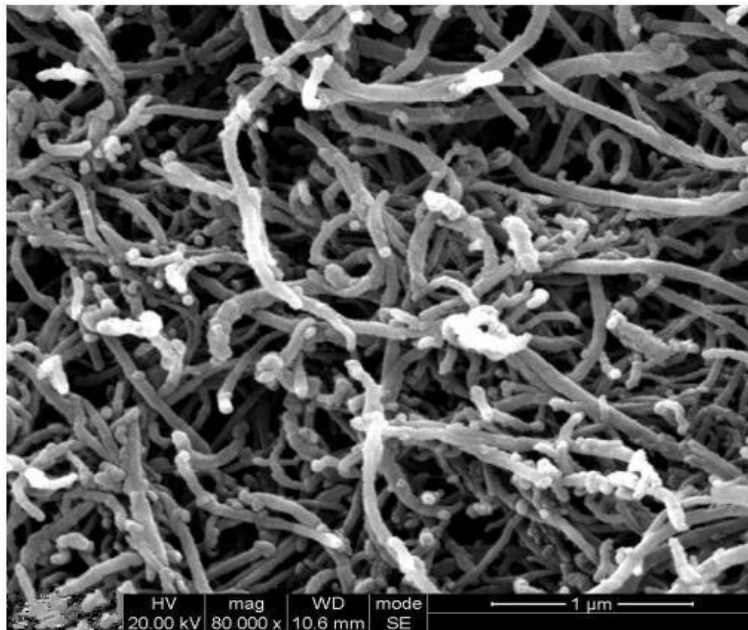
Revision: 010618

1. Preparation Method

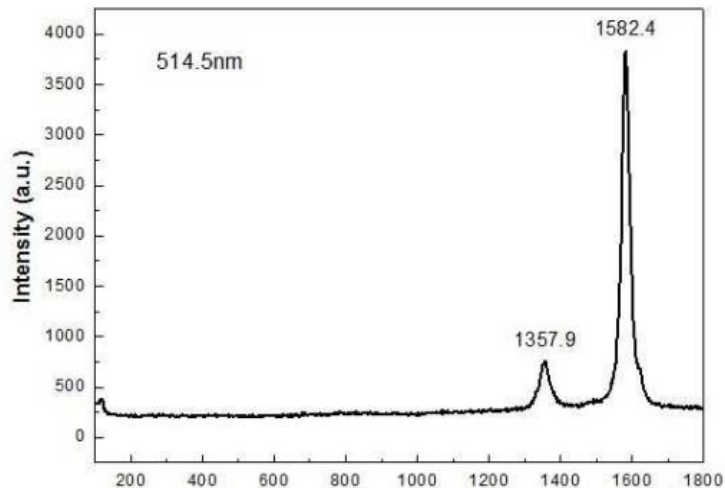
Chemical Vapor Deposition (CVD) method

2. Characterizations

Purity:	>99.9%
Color:	Black
Outer Diameter:	>50 nm
Inner Diameter:	5-15 nm
Length:	<10 μm
SSA:	>20 m^2/g
True Density:	$\sim 2.1 \text{ g}/\text{cm}^3$
EC:	>100 S/cm



SEM Image of ACS Material Graphitized MWNTs (Length <10 μm)



Raman Spectrum of ACS Material Graphitized MWNTs (Length <10 μm)

3. Application Fields

Catalysts, additives in polymers, nanoelectrodes, drug delivery, sensors, electromagnetic-wave absorption and shielding, electron field emitters for cathode ray lighting elements, flat panel display, gas-discharge tubes in telecom networks, energy conversion, lithium-battery anodes, hydrogen storage, supercapacitors, nanotube composites (by filling or coating), nanoprobes for STM, AFM, and EFM tips, nanolithography, reinforcements in composites, *etc.*

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