Technical Data Sheet

ACS Material Double-Walled Carbon Nanotubes (DWCNTs)

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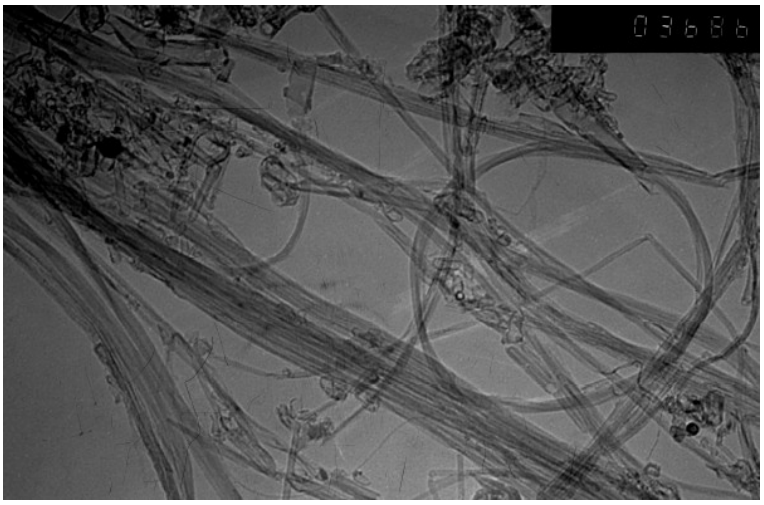
Revision: 110917

1. Preparation Method

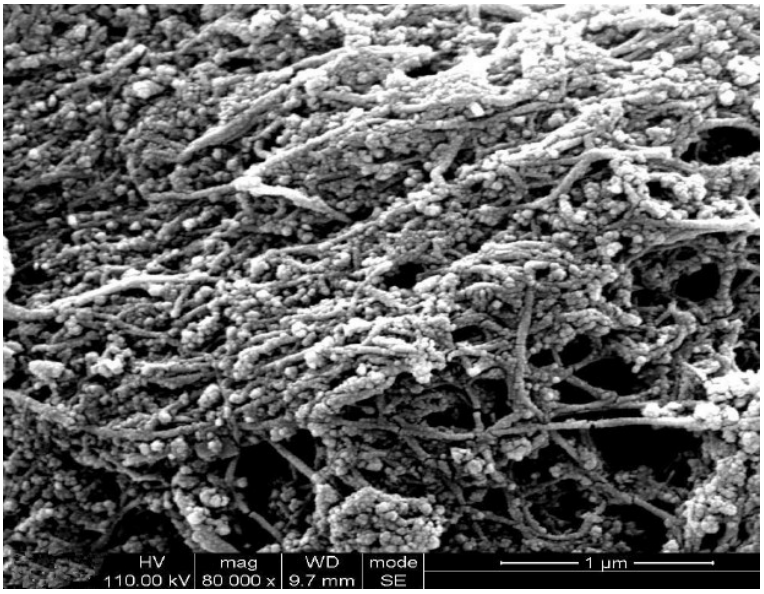
Chemical Vapor Deposition (CVD) Method

2. Characterizations

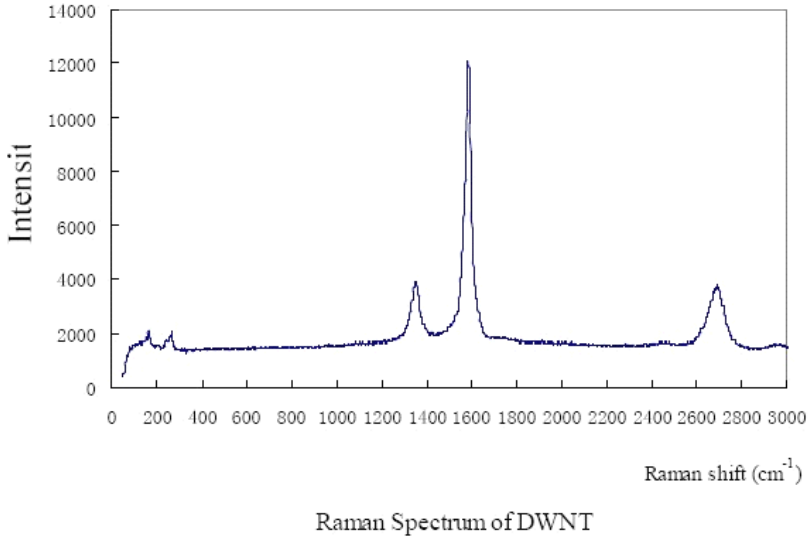
Purity:	>60%
Color:	Black
Outer Diameter：	2-4 nm
Inner Diameter：	1-3 nm
Length:	Type A: ~50 μm Type B: 0.5-2 μm
SSA:	>350m^2/g
True density:	~2.1g/cm^3
EC:	>100 S/cm



TEM Image of ACS Material Double-Walled Carbon Nanotubes (Length = ~50 μm)



SEM Image of Double-Walled Carbon Nanotubes (Length = ~50 µm)



Raman Spectrum of ACS Material Double-Walled Carbon Nanotubes (Length = ~50 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*.