



Technical Data Sheet ACS Material Carboxylic Double-Walled Carbon Nanotubes (DWCNTs-COOH)

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1. Preparation Method

Chemical Vapor Deposition (CVD) Method

2. Characterizations

Purity:	>60%
-COOH Content:	2.58 wt. %
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
Tap Density:	0.25 g/cm ³
True Density:	~2.1 g/cm ³
EC:	>100 S/cm

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), nanoprobe for STM, AFM, and EFM tips, nanolithography, reinforcements in composites, *etc.*

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