



Technical Data Sheet

ACS Material Carbon Nanotubes, Multi-walled, NH₂ Functionalized (MWCNTs-NH₂)

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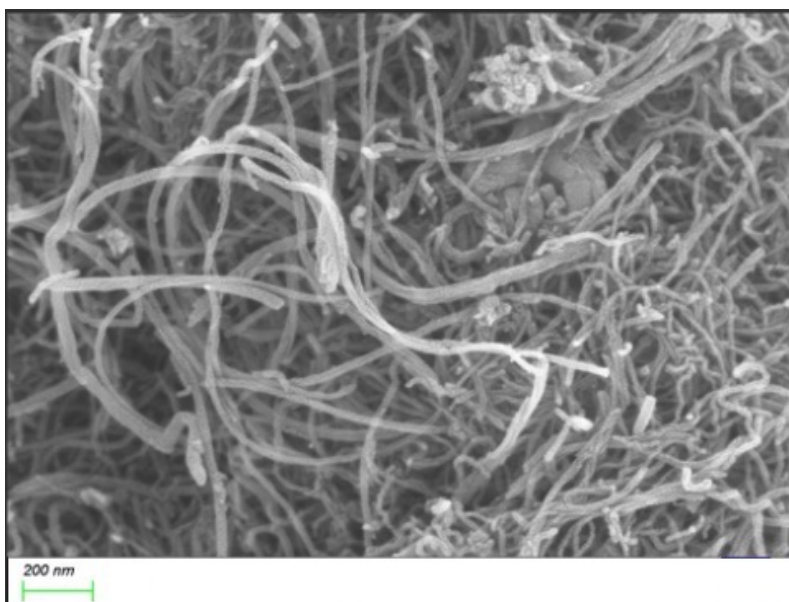
Revision: 121224

1. Preparation Method

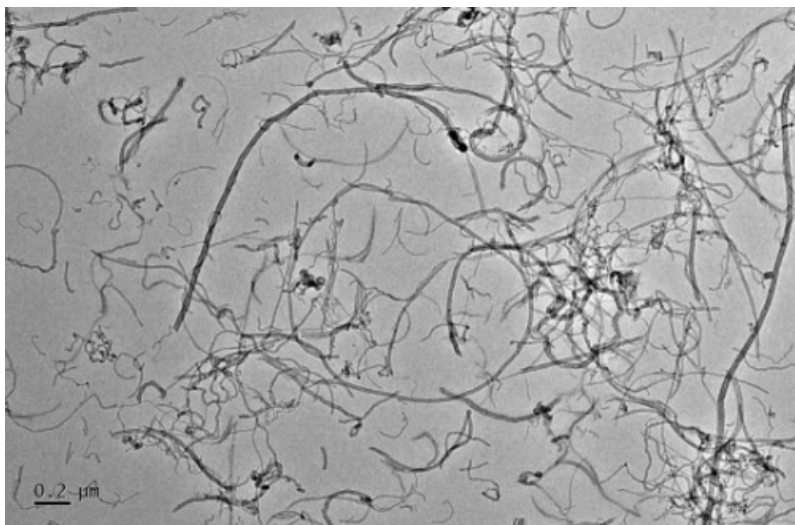
Chemical Vapor Deposition (CVD) Method

2. Characterizations

SKU:	CNTMA005 *Discontinued	CNTMA105
Purity:	>95%	~98%
-NH ₂ Content:	0.45wt%	0.4-0.6 wt%
Color:	Black	Black
Outer Diameter:	10-20 nm	8-15 nm
Inner Diameter:	3-5 nm	N/A
Length:	~50 μm	$\leq 20 \mu\text{m}$
Special Surface Area:	>233m ² /g	220-290 m ² /g
Tap Density:	0.27 g/cm ³	0.27 g/cm ³
Electric Conductivity:	>100s/cm	N/A



Typical SEM Image of ACS Material Carbon Nanotubes, Multi-walled, NH₂ Functionalized



Typical TEM Image of ACS Material Carbon Nanotubes, Multi-walled, NH₂ Functionalized

3. Application Fields

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

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