



## Technical Data Sheet

### ACS Material Ni Coated Multi-Walled Carbon Nanotubes (Ni Coated MWNTs, >50 nm)

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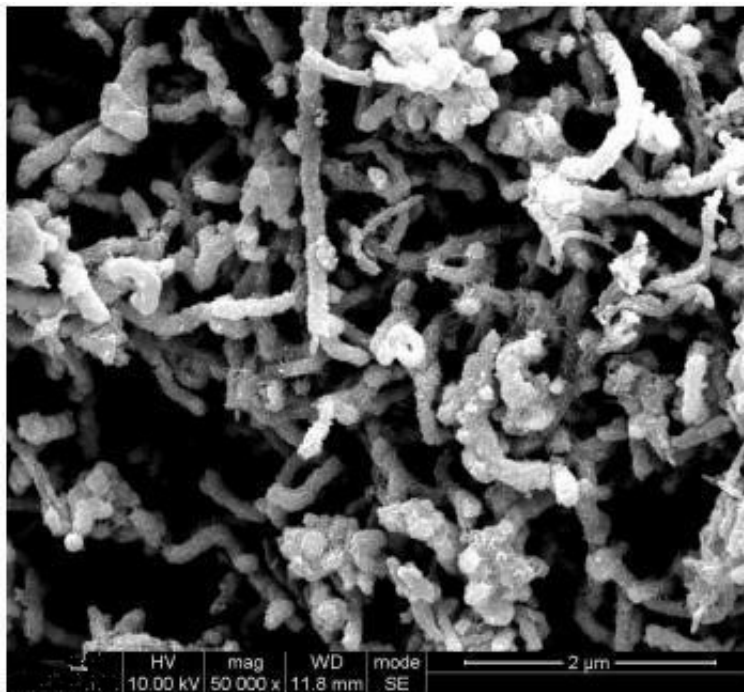
Revision: 010618

## 1. Preparation Method

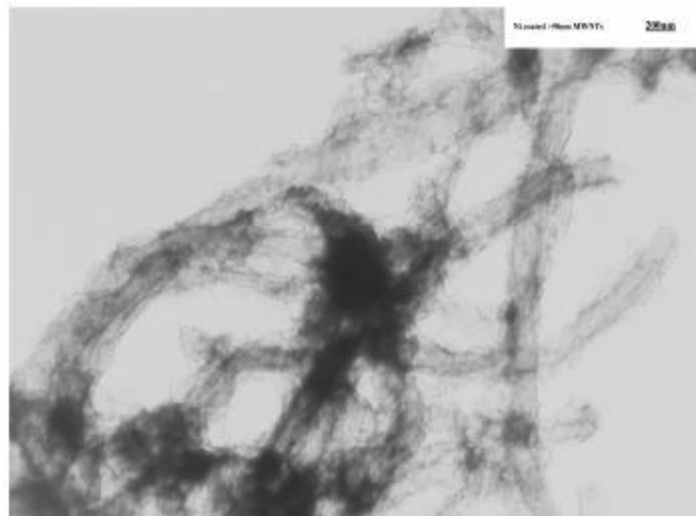
Chemical Vapor Deposition (CVD) method

## 2. Characterizations

<b>Purity:</b>	>99.9%
<b>Color:</b>	Black
<b>CNTs Content:</b>	>38 wt. %
<b>Ni Content:</b>	>60 wt. %
<b>Outer Diameter:</b>	>50 nm
<b>Inner Diameter:</b>	5-15 nm
<b>Length:</b>	<10 $\mu\text{m}$
<b>Tap Density:</b>	0.83 g/cm <sup>3</sup>
<b>SSA:</b>	>40 m <sup>2</sup> /g
<b>EC:</b>	N/A



SEM Image of ACS Material Ni Coated MWNTs



TEM Image of ACS Material Ni Coated MWNTs

### 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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