

# Technical Data Sheet

# ACS Material Ni-Coated Multi-Walled Carbon Nanotubes (Ni Coated MWNTs, 30-50 nm)

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### **Contact Information:**

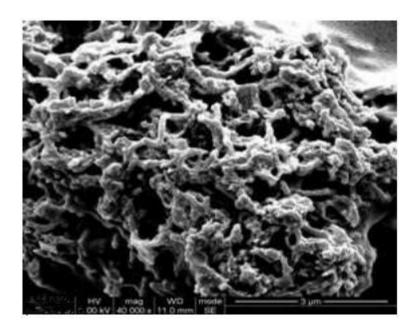
Manufacturer: ACS Material, LLC. Address: 959 E Walnut St., Suite 100, Pasadena, CA 91106, USA Phone: (866)-227-0656 Fax: (781)-518-0284 E-Mail: contact@acsmaterial.com Revision: 010618

## 1. Preparation Method

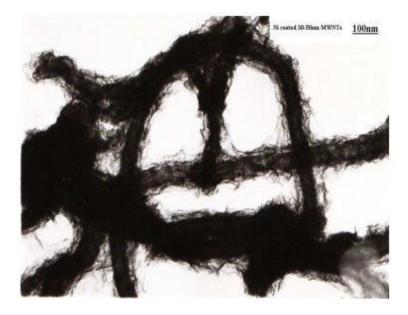
Chemical Vapor Deposition (CVD) method

#### 2. Characterizations

Purity:	>99.9%
Color:	Black
CNTs Content:	>38 wt.%
Ni Content:	>60 wt.%
Outer Diameter:	30-50 nm
Inner Diameter:	5-10 nm
Length:	<10 µm
Tap Density:	0.83 g/cm <sup>3</sup>
SSA:	>50 m <sup>2</sup> /g
EC:	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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