



## Technical Data Sheet

# ACS Material Highly Purified Single-Walled Carbon Nanotubes (SWCNTs)

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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](mailto:contact@acsmaterial.com)

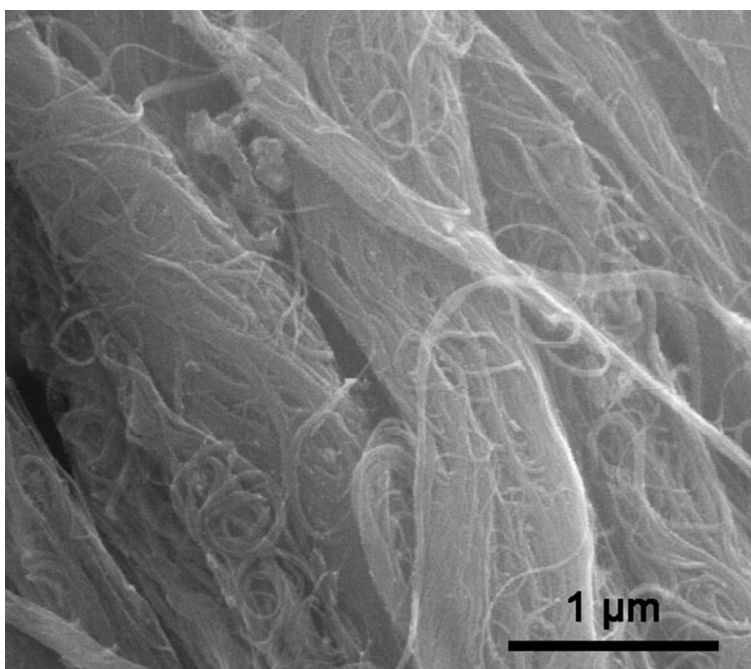
Revision: 092017

## 1. Preparation Method

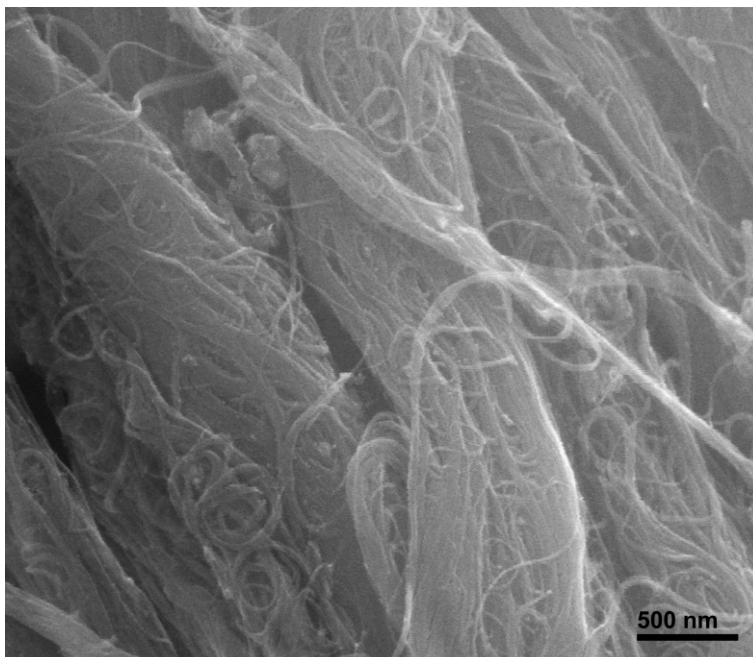
Floating Catalyst Method

## 2. Characterizations

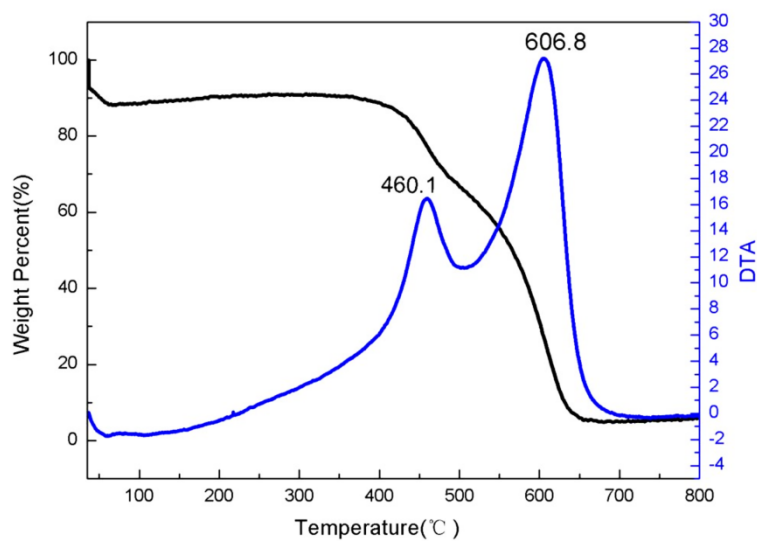
Type:	Type A	Type B
Purity:	>95%	>95%
Color:	Black	Black
Outer Diameter:	1-2 nm	1-2 nm
Inner Diameter	0.8-1.6 nm	N/A
Length:	1-3 $\mu\text{m}$	5-30 $\mu\text{m}$
SSA:	>650m <sup>2</sup> /g	>650m <sup>2</sup> /g



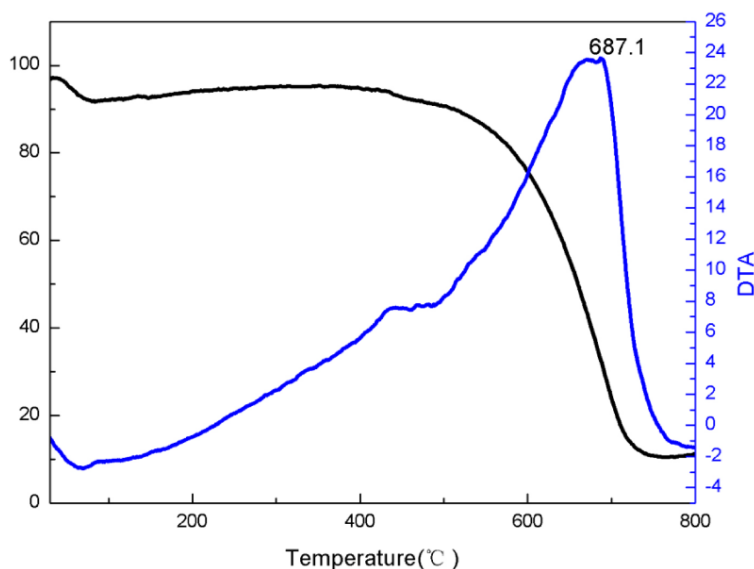
SEM Image of ACS Material Highly Purified SWCNTs (Type A: Length = 1-3  $\mu\text{m}$ )



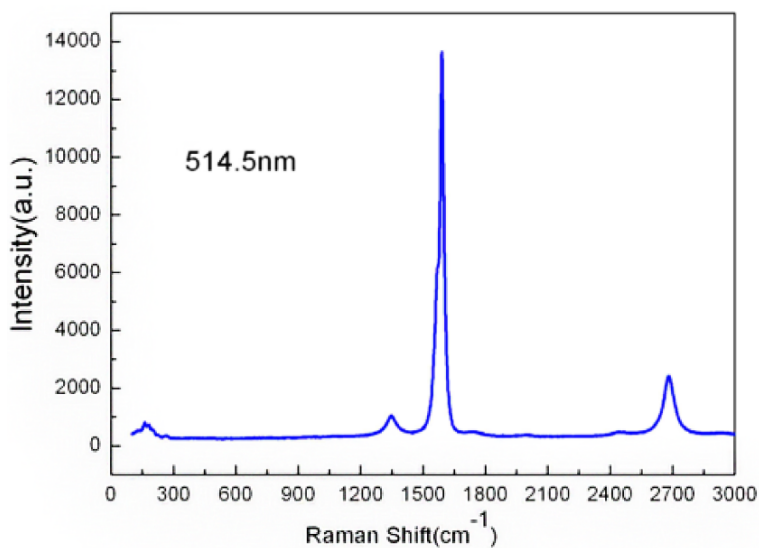
SEM Image of ACS Material Highly Purified SWCNTs (Type B: Length = 5-30  $\mu\text{m}$ )



TGA Curves of ACS Material Highly Purified SWCNTs (Type A: Length = 1-3  $\mu\text{m}$ )



TGA Curves of ACS Material Highly Purified SWCNTs (Type B: Length = 5-30  $\mu\text{m}$ )



Raman Spectrum of ACS Material Highly Purified SWCNTs (Type B: Length = 5-30  $\mu\text{m}$ )

### 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, supercapacitor, nanotube composites (by filling or coating), nanoprobe for STM, AFM, and EFM tips, nanolithography, reinforcements in composites, *etc.*

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