

Technical data

Categories No: TNMH2

Name: -OH Functionalized Multi-walled Carbon Nanotubes
(MWCNTs-OH)

Purity: >95%

-OH Content: 3.70wt%

(The rate of surface carbon atom: 8-10mol%)

OD: 8-15nm [OD=Outer Diameter]

ID: 3-5nm [ID=Inner Diameter]

Length: ~50um

SSA: >233m²/g [SSA=Special Surface Area]

Color: Black

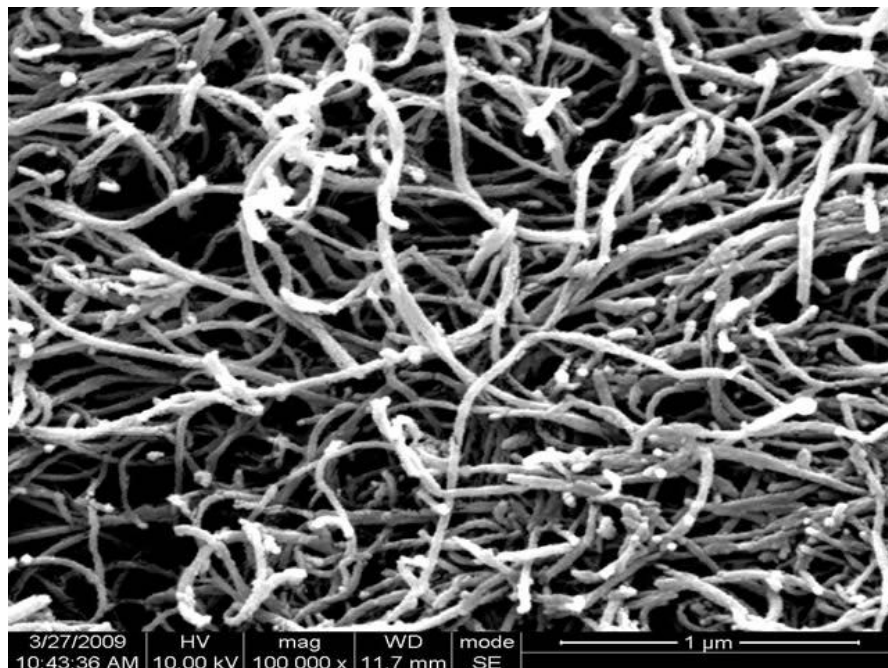
Tap density: 0.11g/cm³

True density: ~2.1 g/cm³

EC: >100s/cm [EC=Electric Conductivity]

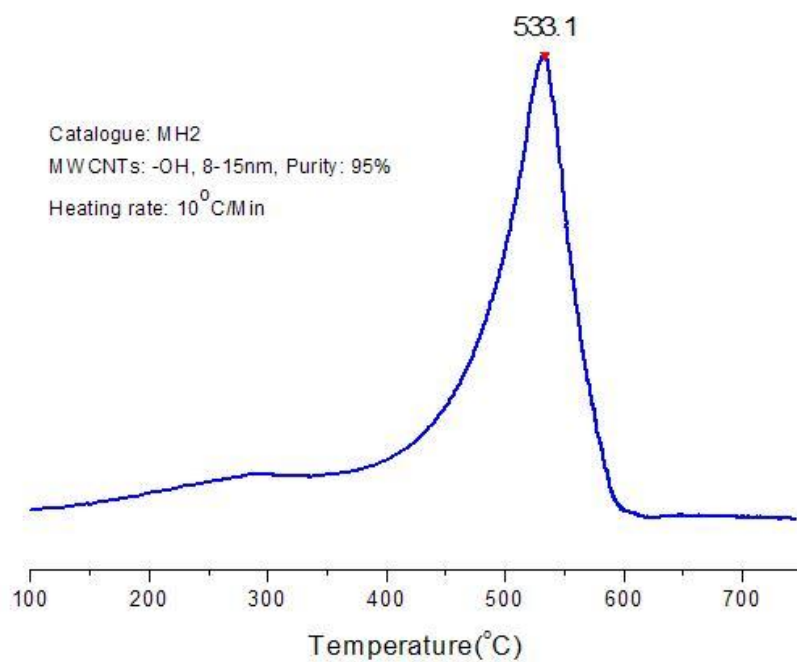
Making method: CVD

Testing pictures



Scanning Electron Microscopy (SEM)

TPO(Temperature Programmed Oxidation)



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Application instruction

Potential Applications of Carbon Nanotubes

Additives in polymers

Catalysts

Electron field emitters for cathode ray lighting elements

flat panel display

gas-discharge tubes in telecom networks

Electromagnetic-wave absorption and shielding

Energy conversion

Lithium-battery anodes

Hydrogen storage

Nanotube composites (by filling or coating);

Nanoprobes for STM, AFM, and EFM tips

nanolithography

nanoelectrodes

drug delivery

sensors

Reinforcements in composites

Supercapacitor