

## Technical data

Categories No: TNMH8

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

Purity: >98%

-OH Content: 0.71wt%

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

OD: 30-80nm [OD=Outer Diameter]

ID: 5-15nm [ID=Inner Diameter]

Length: <10um

SSA: >60m<sup>2</sup>/g [SSA=Special Surface Area]

Color: Black

Tap density: 0.18g/cm<sup>3</sup>

True density: ~2.1 g/cm<sup>3</sup>

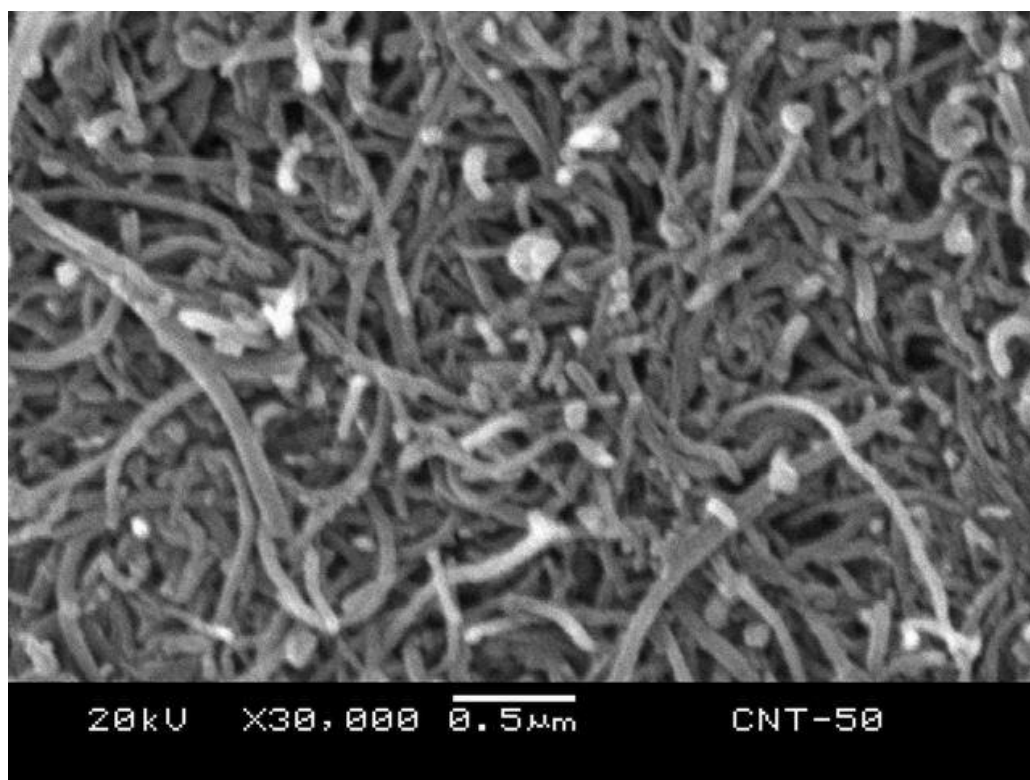
EC: >100s/cm [EC=Electric Conductivity]

Making method: CVD

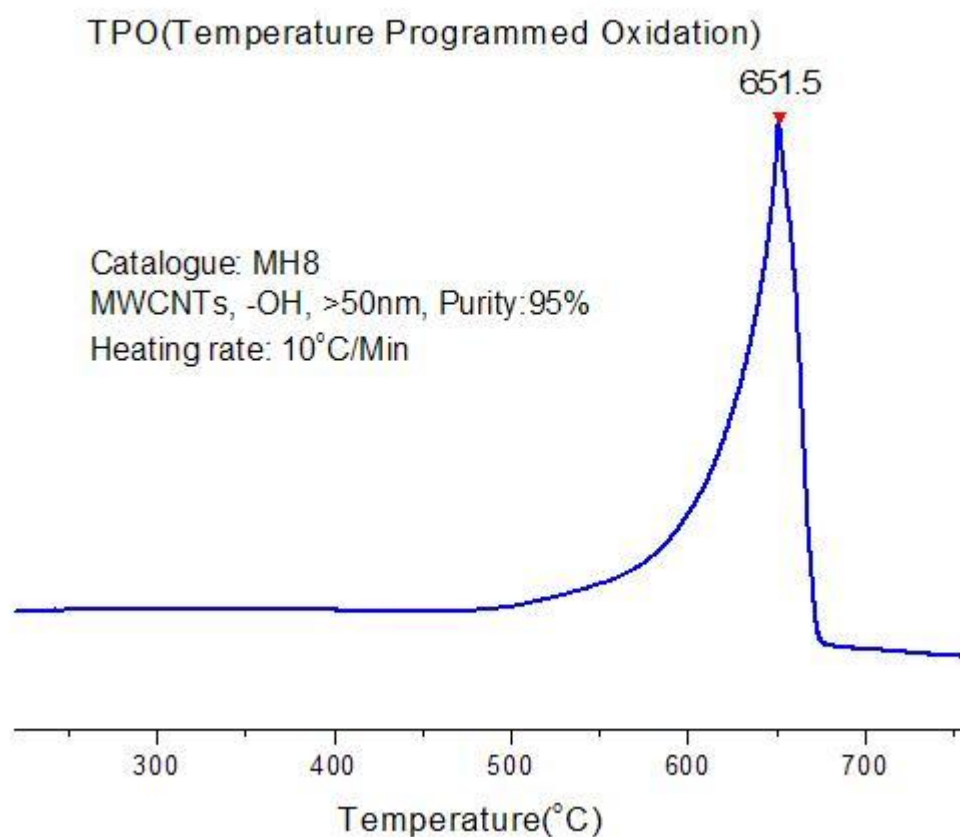
## Testing pictures



Transmission Electron Microscopy (TEM)



Scanning Electron Microscopy (SEM)



## 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