

## Technical data

Categories No: TNIMH4

Name: Industrial Grade -OH Functionalized Multi-walled Carbon Nanotubes

Purity: >95%

-OH Content: 2.48 wt% (The rate of surface carbon atom: 8-10mol%)

OD: 10-30nm [OD=Outer Diameter]

ID: 5-10nm [ID=Inner Diameter]

Length: 10-30um

SSA: >110m<sup>2</sup>/g [SSA=Special Surface Area]

Color: Black

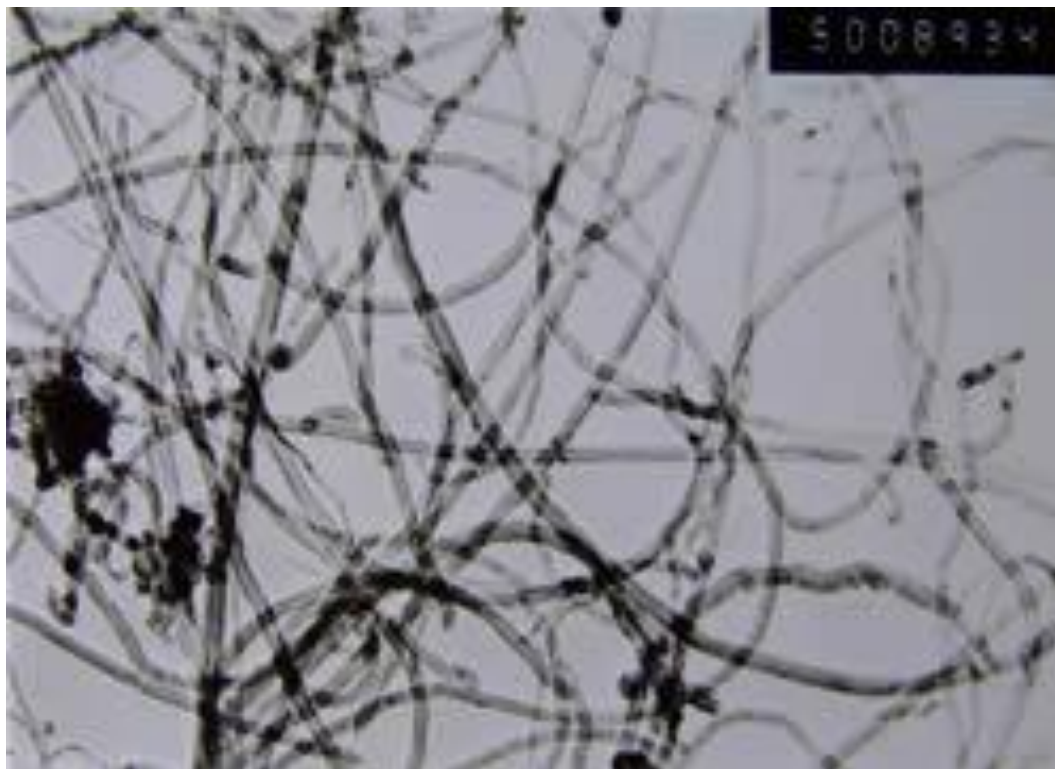
Tap density: 0.14 g/cm<sup>3</sup>

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

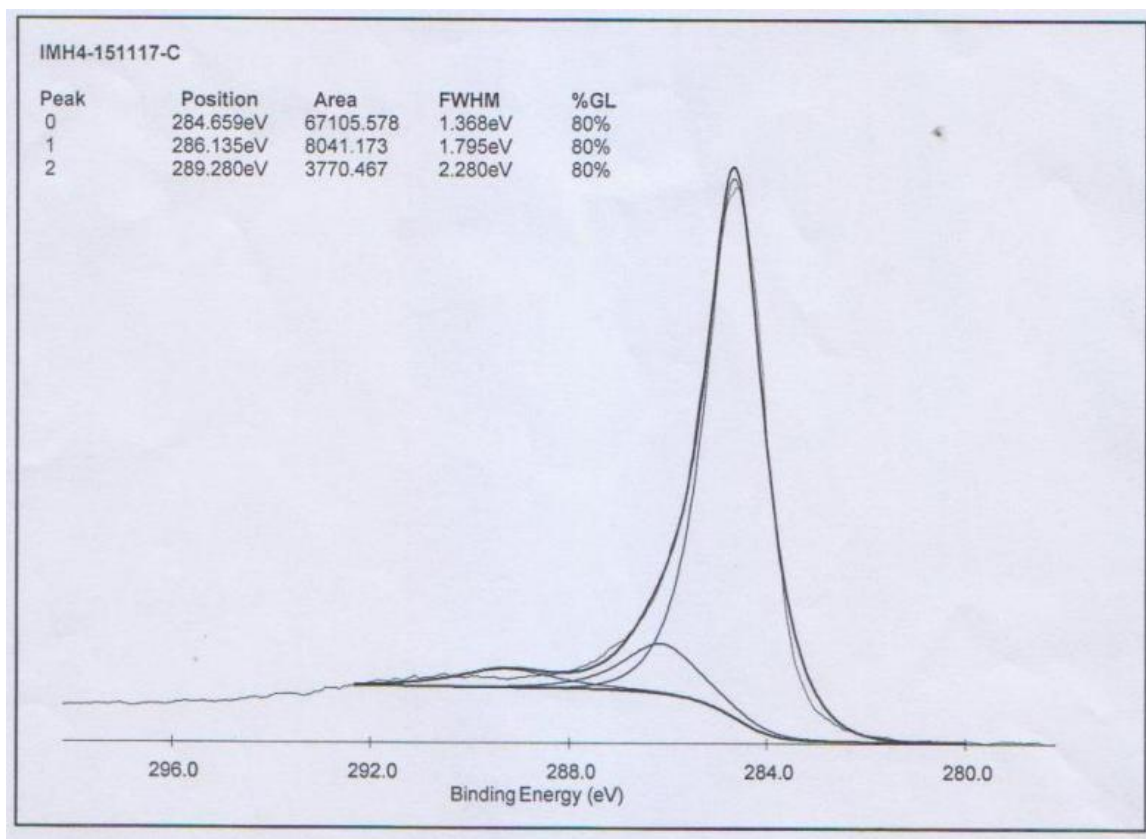
EC: >100s/cm [EC=Electric Conductivity]

Making method: CVD

## Testing paper



Transmission Electron Microscopy (TEM)



### XPS

Components	Area(CPS)	Contents	Components
<b>C</b>	<b>76917</b>	<b>0.25</b>	<b>95.87%</b>
<b>O</b>	<b>8745</b>	<b>0.66</b>	<b>4.13%</b>

### 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