

## Technical data

Categories No: TNSM3

Name: Short Multi-walled Carbon Nanotubes

(Short-MWCNTs)

Purity:>98%

OD:10-20nm [OD=Outer Diameter]

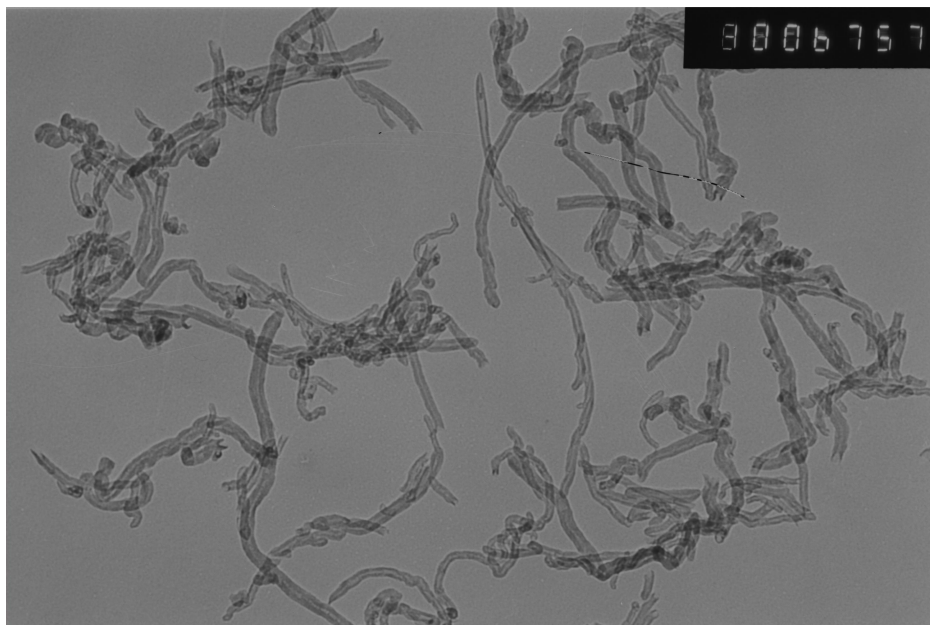
Length: 0.5-2um

SSA: >100m<sup>2</sup>/g [SSA=Specific Surface Area]

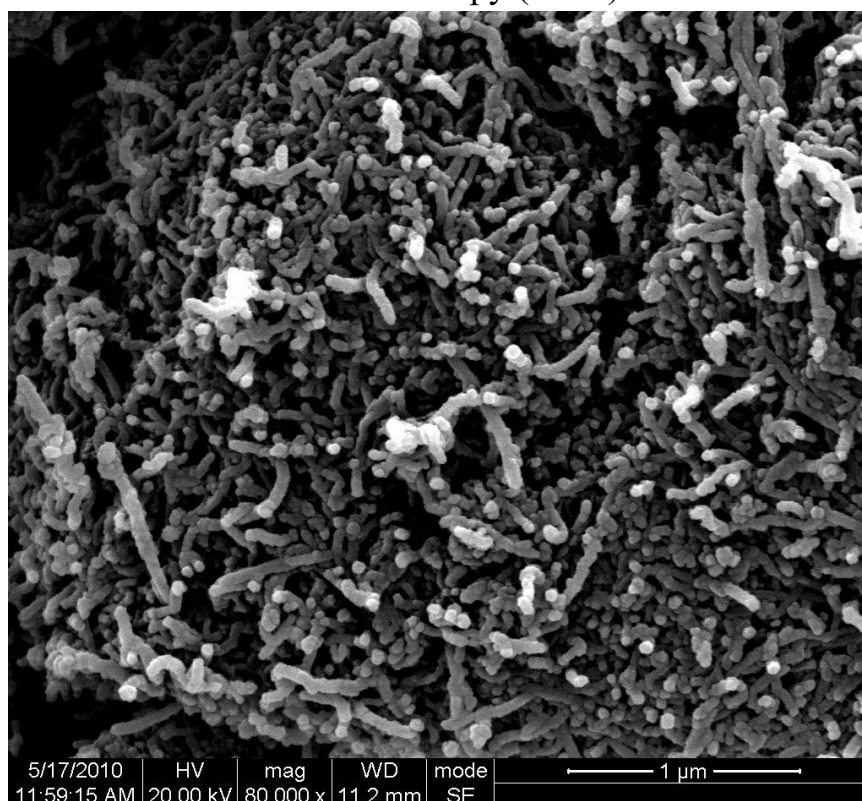
Color: Black

Making method: CVD

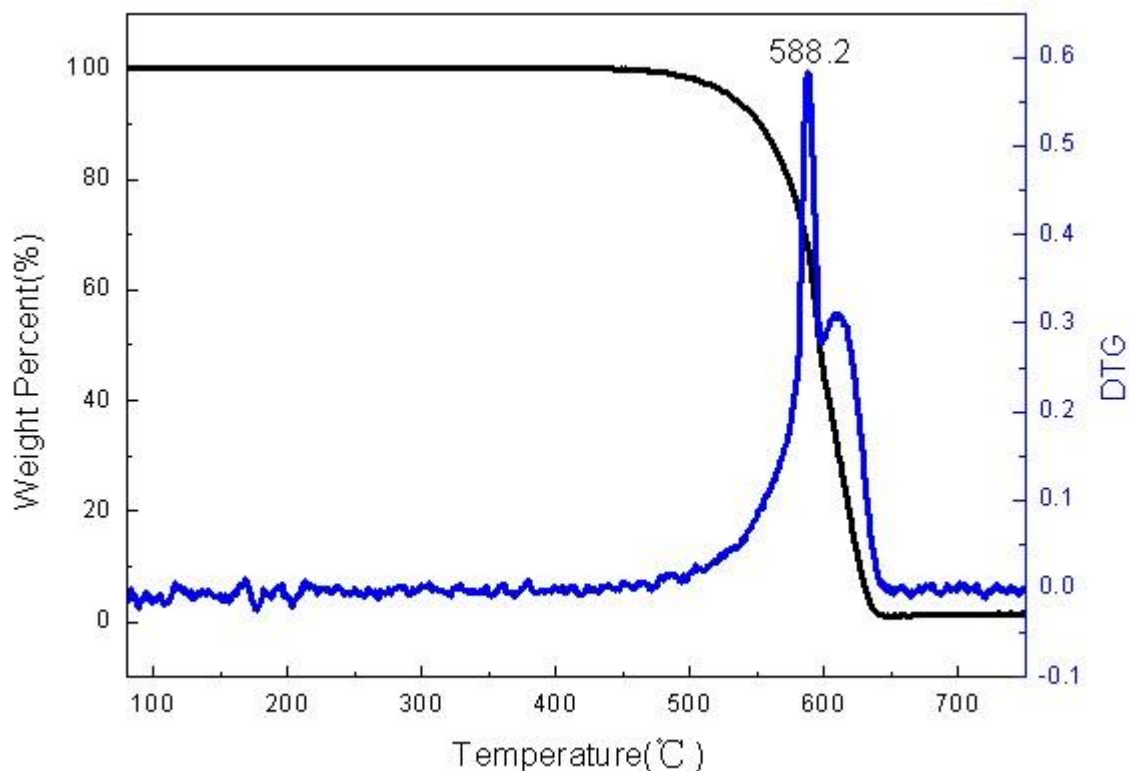
## Testing pictures



Transmission Electron Microscopy (TEM)



Scanning Electron Microscopy (SEM)



TGA curve of Short 10-20nm >95%

### Certificate of Analysis

Components	Contents (%)
C	99.4
Ni	0.6

## **Application instruction**

Potential Application 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