

## Technical data

Categories No: TNM7

Name: Purified Multi-walled carbon nanotubes (MWCNTs)

Purity: >98%

OD: 30-50nm [OD=Outer Diameter]

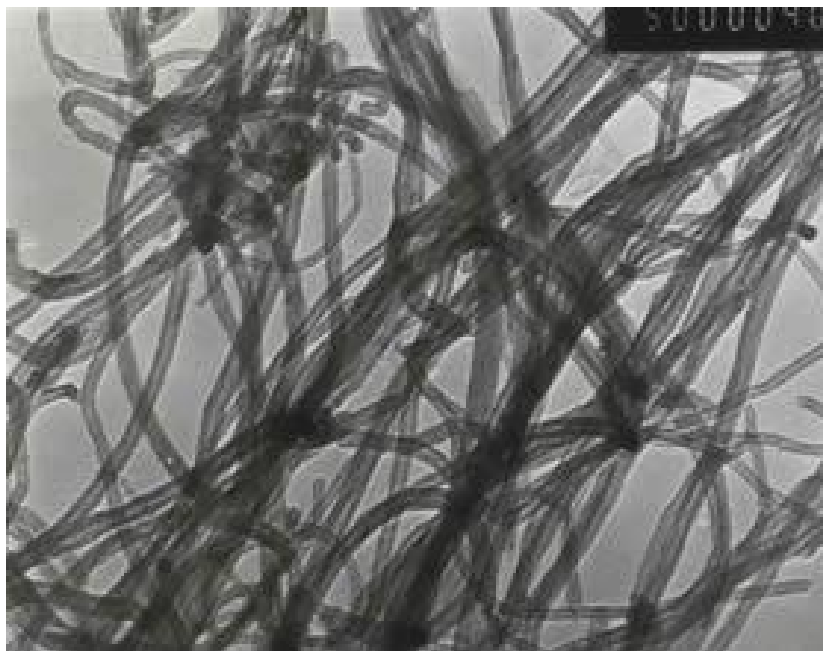
Length: <10um

SSA: >80m<sup>2</sup>/g [SSA=Specific Surface Area]

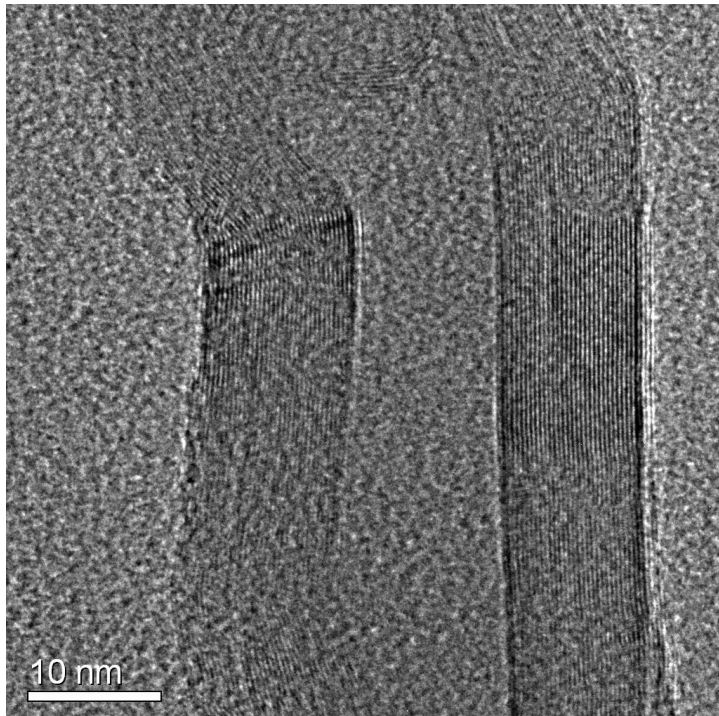
Color: Black

Making method: CVD

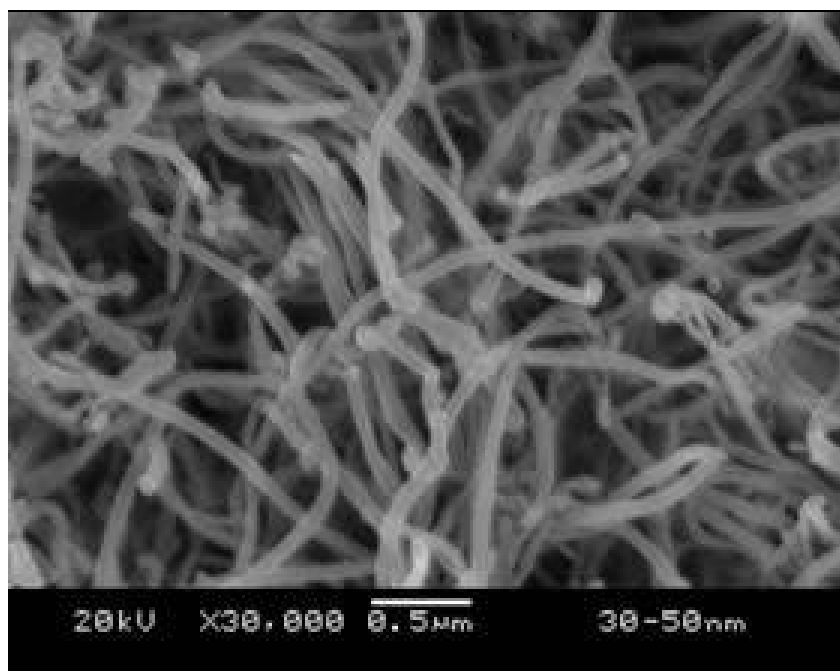
## Testing pictures



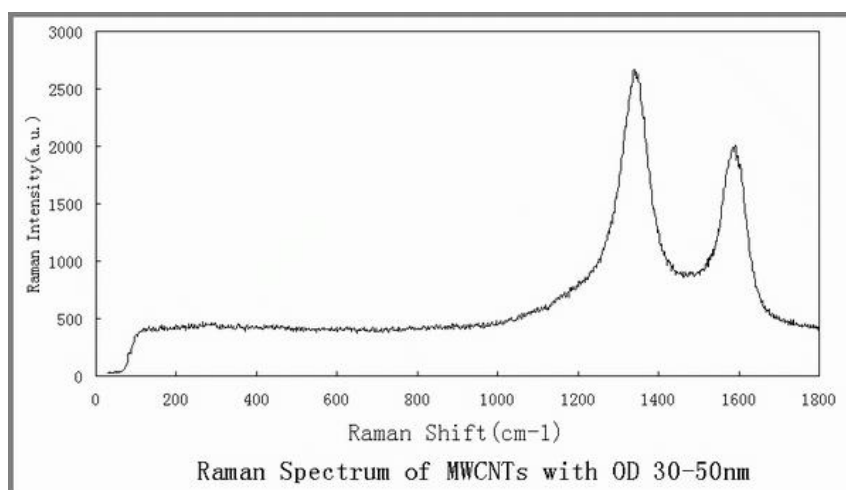
Transmission Electron Microscopy (TEM)



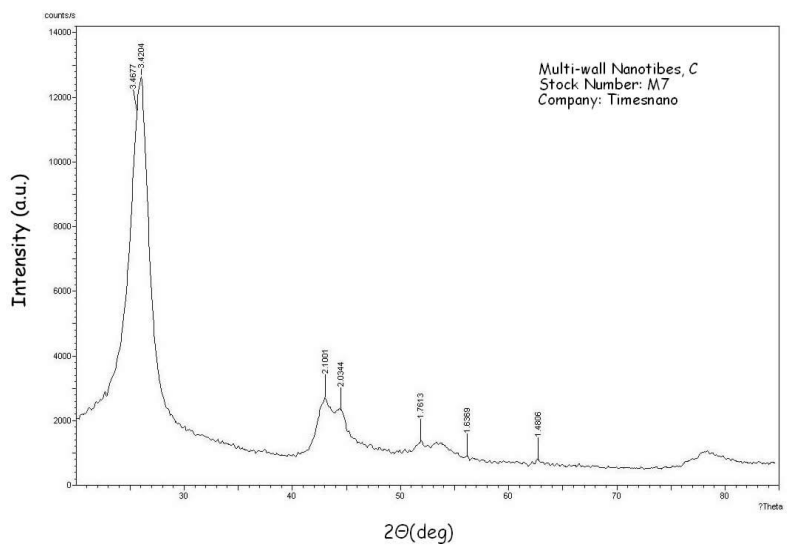
High Resolution Transmission Electron Microscopy (HRTEM)



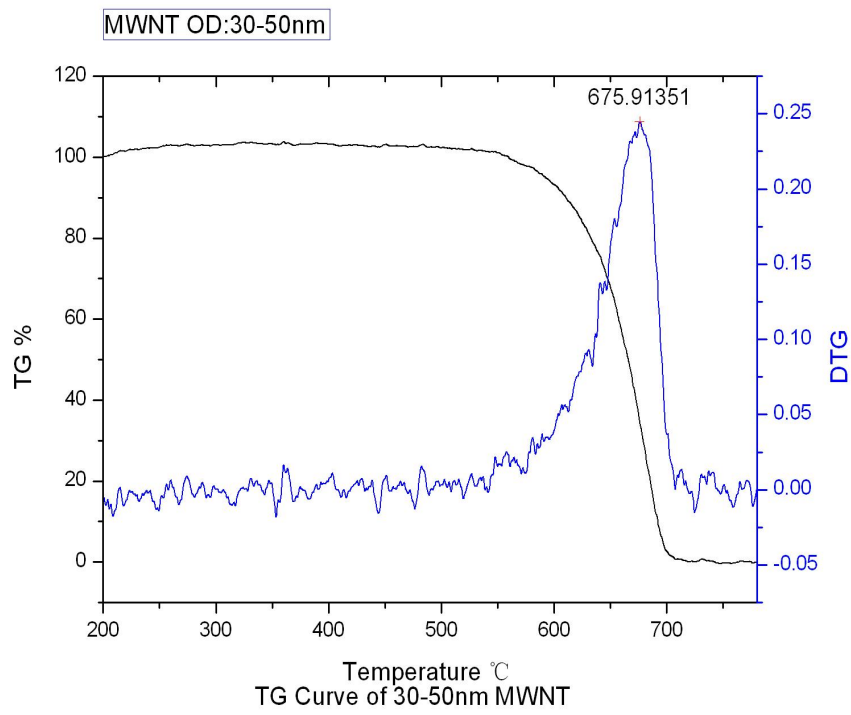
Scanning Electron Microscopy (SEM)



Raman Spectra



X-ray diffraction pattern



TGA

## **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