

Technical data

Categories No: TNM2

Name: Multi-walled carbon nanotubes (MWCNTs)

Purity: >95%

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

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

Length: ~50um

SSA: >140m²/g [SSA=Special Surface Area]

Color: Black

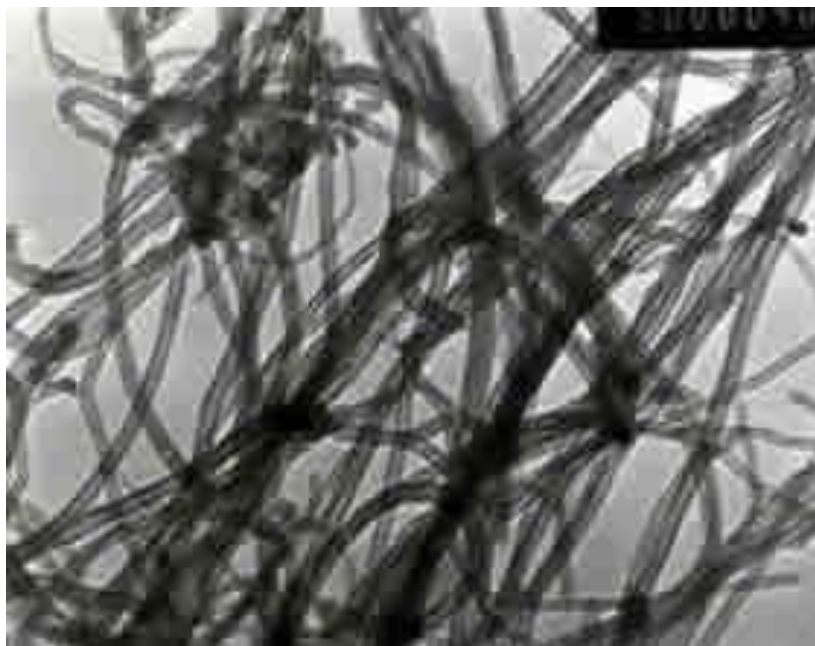
Tap density: 0.02 g/cm³

True density: ~2.1 g/cm³

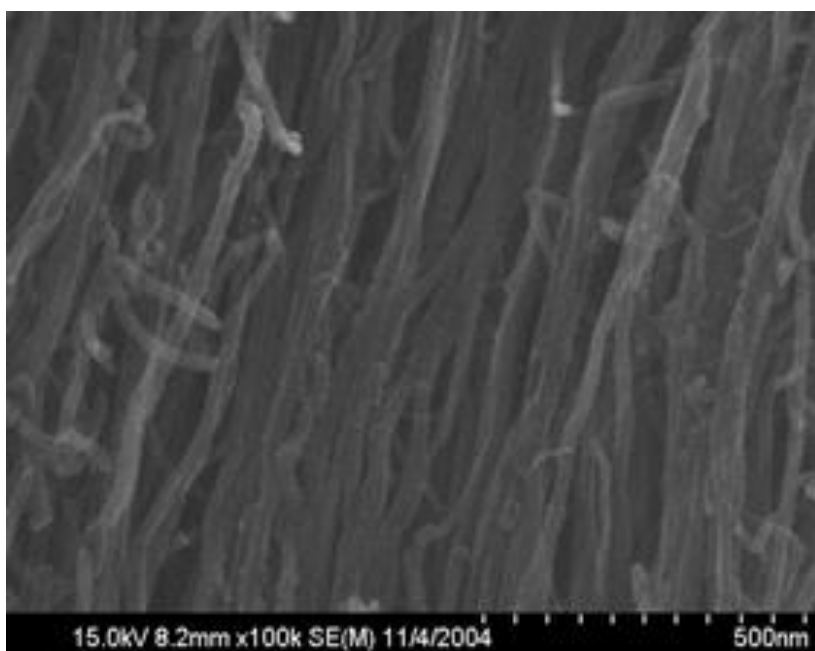
EC: >100s/cm [EC=Electric Conductivity]

Making method: CVD

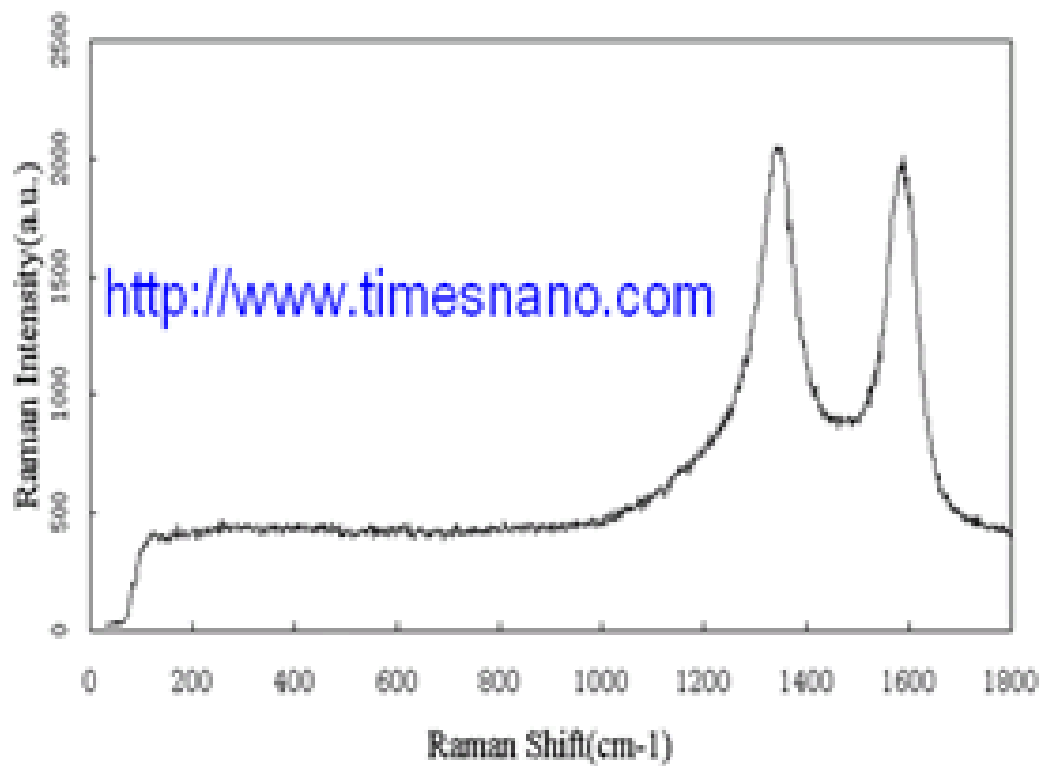
Testing pictures



Transmission Electron Microscopy (TEM)

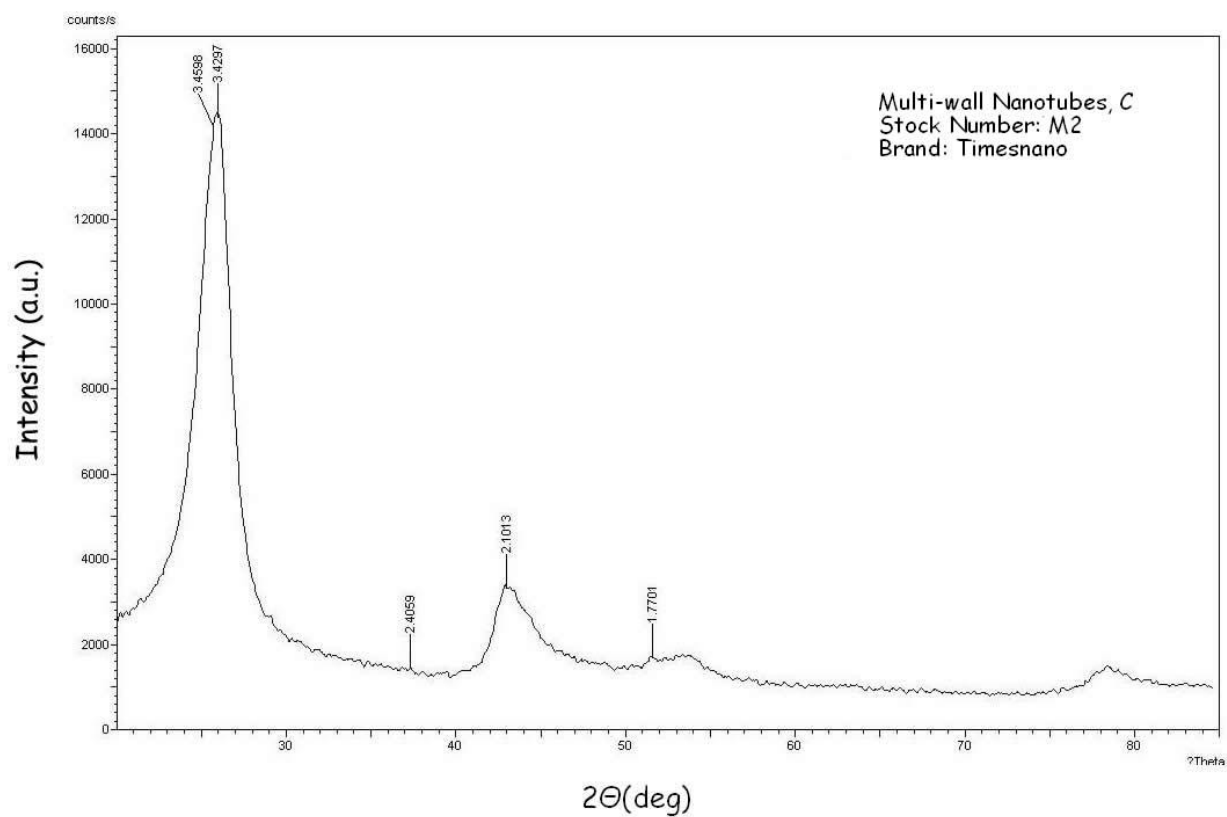


Scanning Electron Microscopy (SEM)

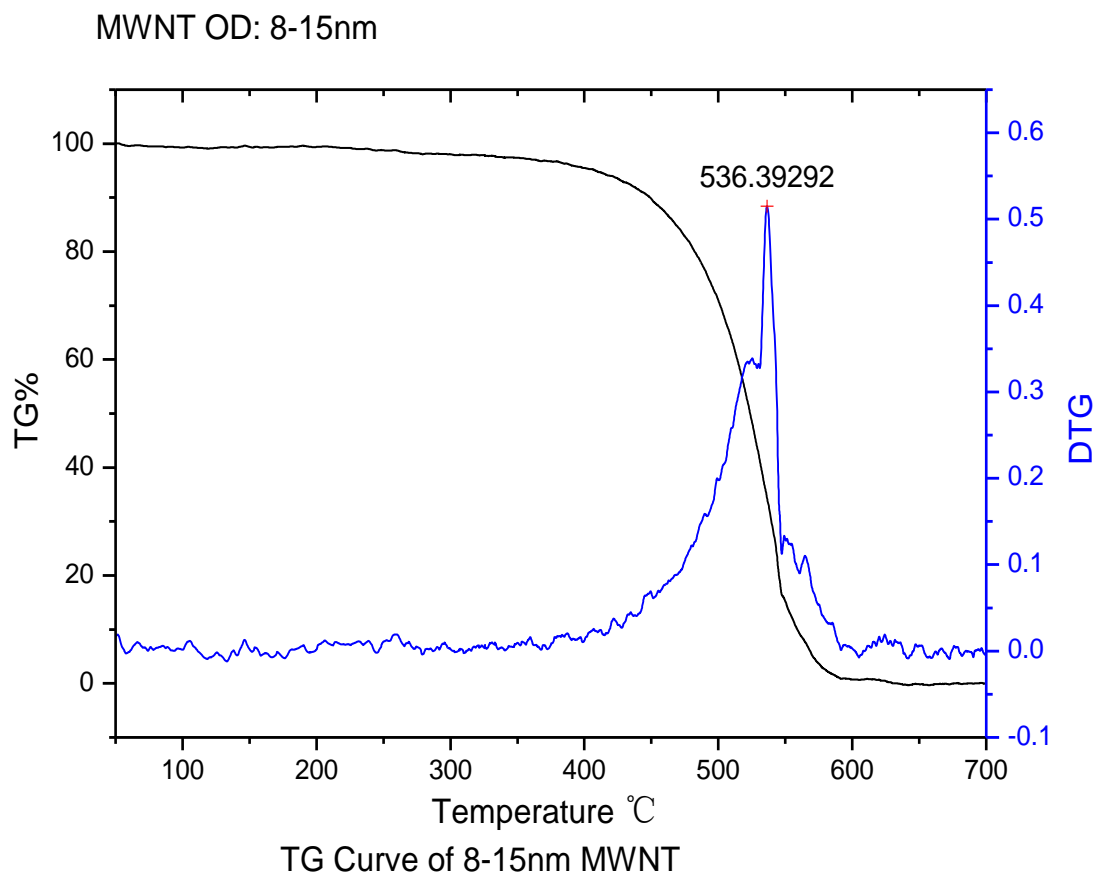


Raman Spectrum of MWCNTs With OD 8-15nm

Raman Spectra



X-ray diffraction pattern



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