

Technical data

Categories No: TNM8

Name: Purified Multi-walled carbon nanotubes (MWCNTs)

Purity: >98%

OD: >50nm [OD=Outer Diameter]

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

Length: <10um

SSA: >60m²/g [SSA=Special Surface Area]

Color: Black

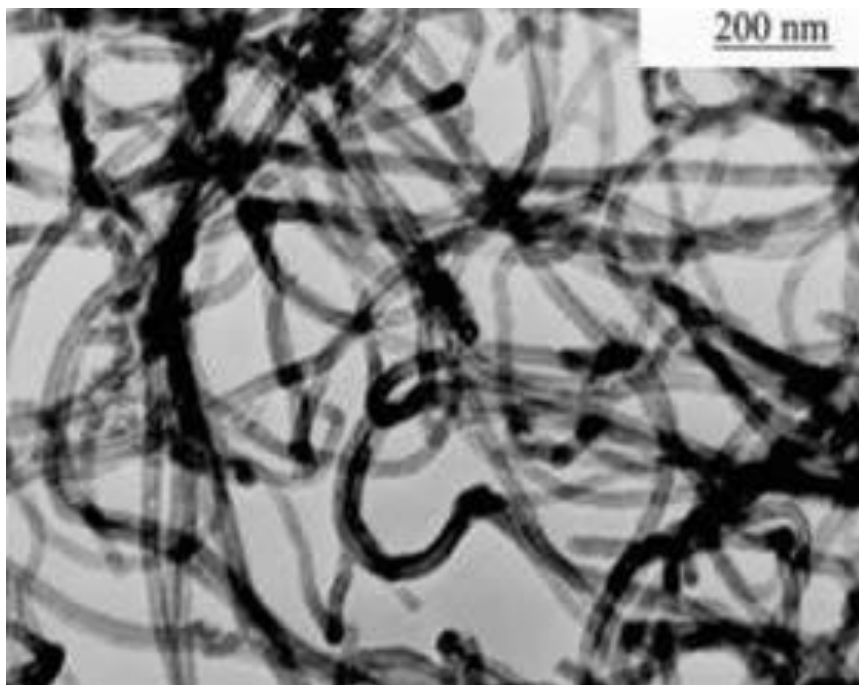
Tap density: 0.18 g/cm³

True density: ~2.1 g/cm³

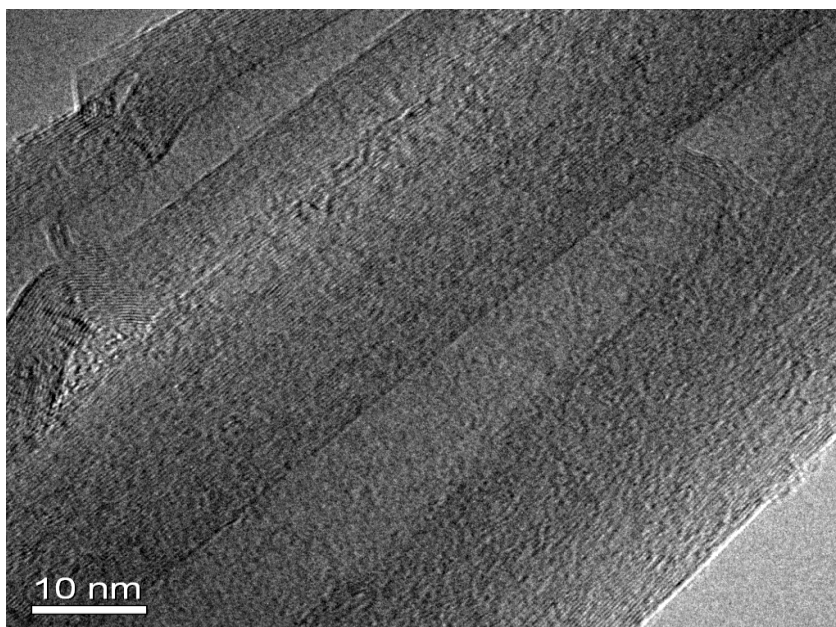
EC: >100s/cm [EC=Electric Conductivity]

Making method: CVD

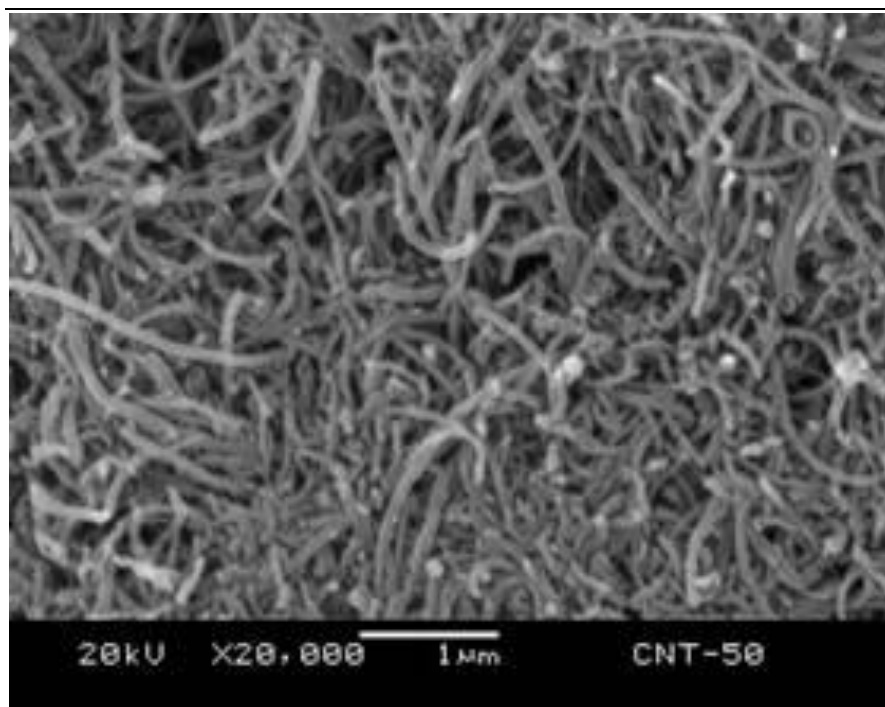
Testing pictures



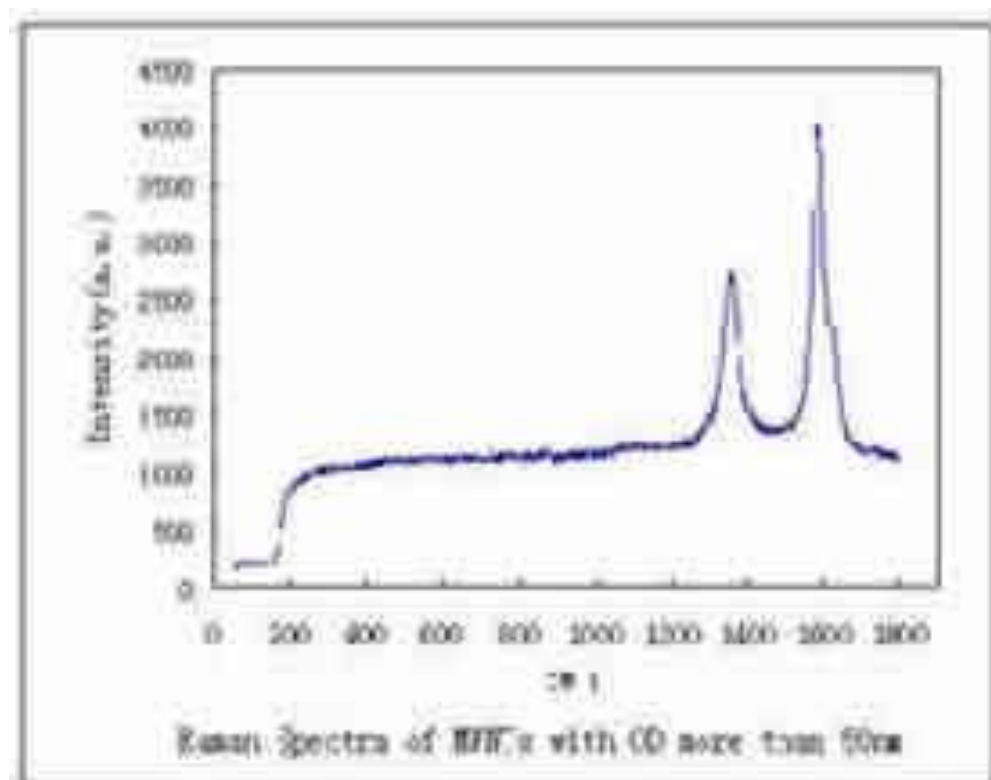
Transmission Electron Microscopy (TEM)



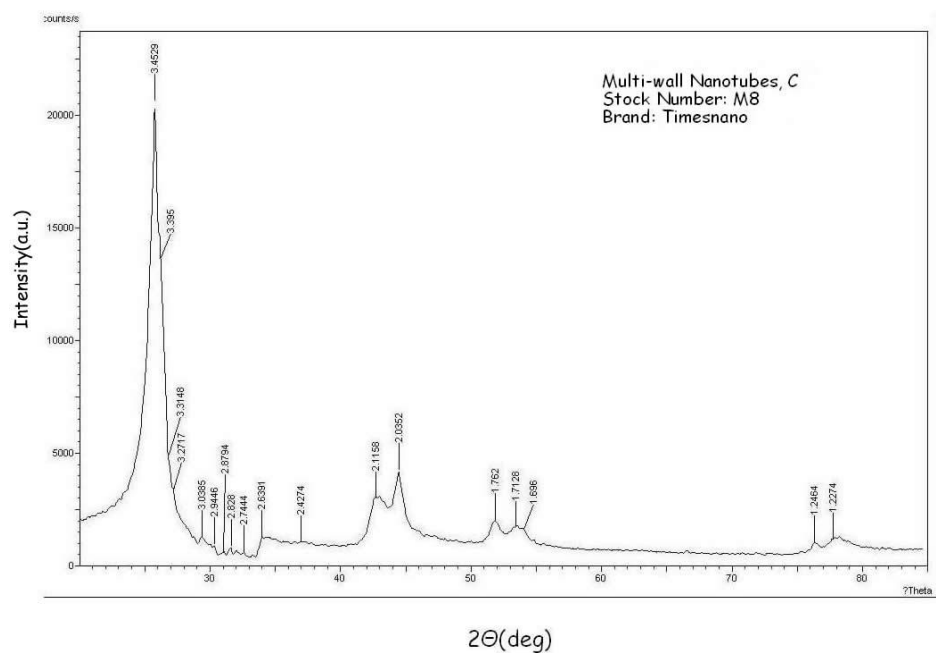
High Resolution Transmission Electron Microscopy (HRTEM)



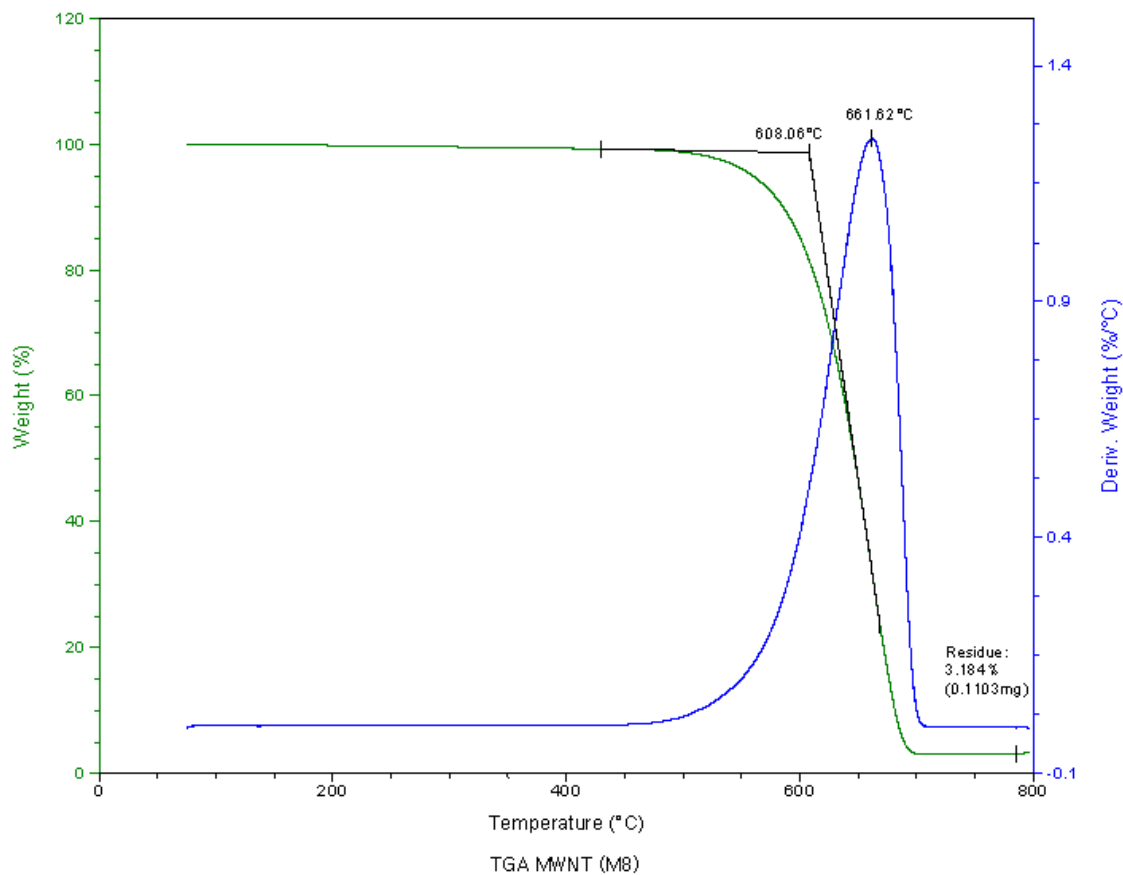
Scanning Electron Microscopy (SEM)



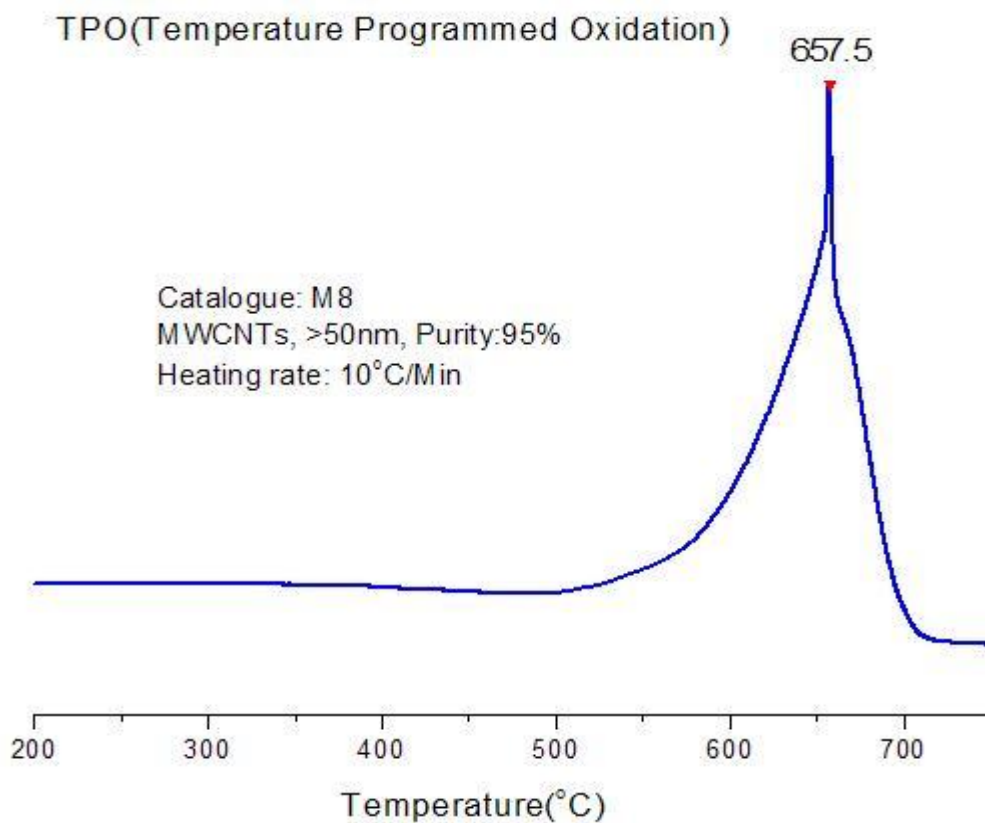
Raman Spectra



X-ray diffraction pattern



TGA



Application instruction

Potential 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