

Technical data

Categories No: TNMC2

Name: -COOH Functionalized Multi-walled Carbon Nanotubes
(MWCNTs-COOH)

Purity: >95%

-COOH Content: 2.56wt%

(The rate of surface carbon atom: 8-10mol%)

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

Length: ~50um

SSA: 130m²/g [SSA=Specific Surface Area]

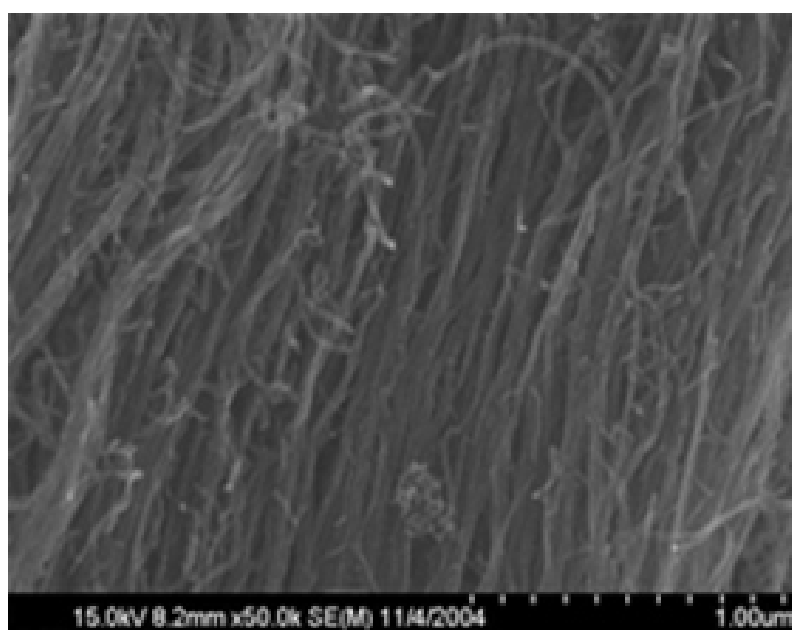
Color: Black

Making method: CVD

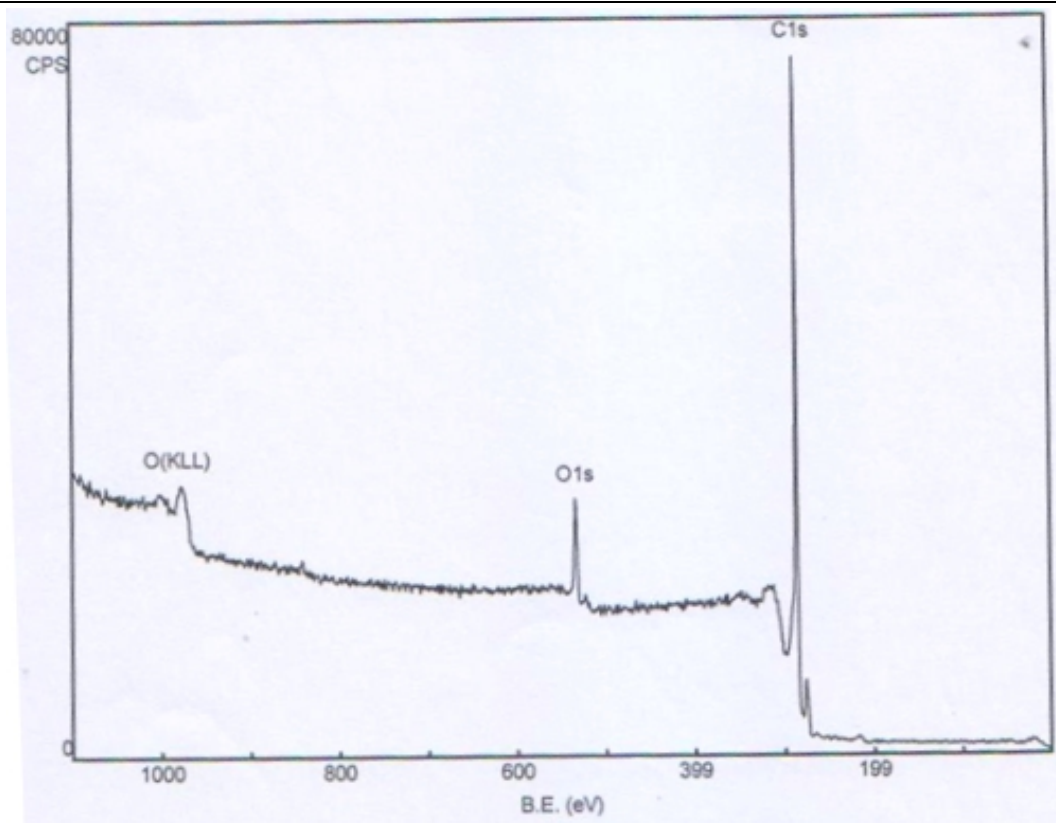
Testing pictures



Transmission Electron Microscopy (TEM)



Scanning Electron Microscopy (SEM)



XPS

Components	Area(CPS)	Contents	Components
C	8000	0.25	93.78%
O	1400	0.66	6.22%

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