

Technical data

Categories No: TNMC8

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

Purity: >98%

-COOH Content: 0.49wt%

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

OD: 30-80nm [OD=Outer Diameter]

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

Length: <10um

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

Color: Black

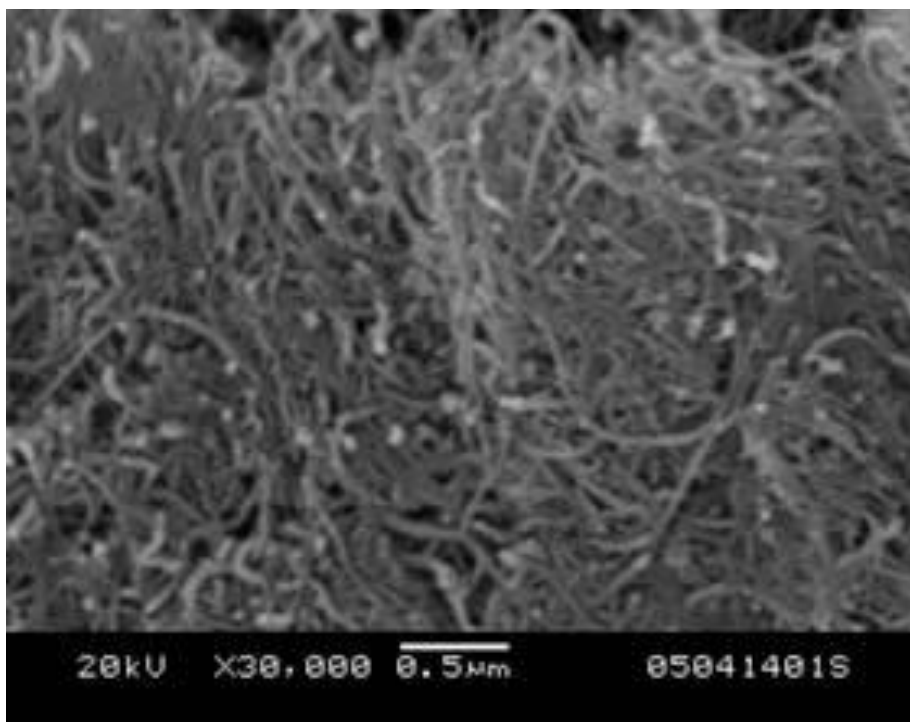
Tap density: 0.18g/cm³

True density: ~2.1 g/cm³

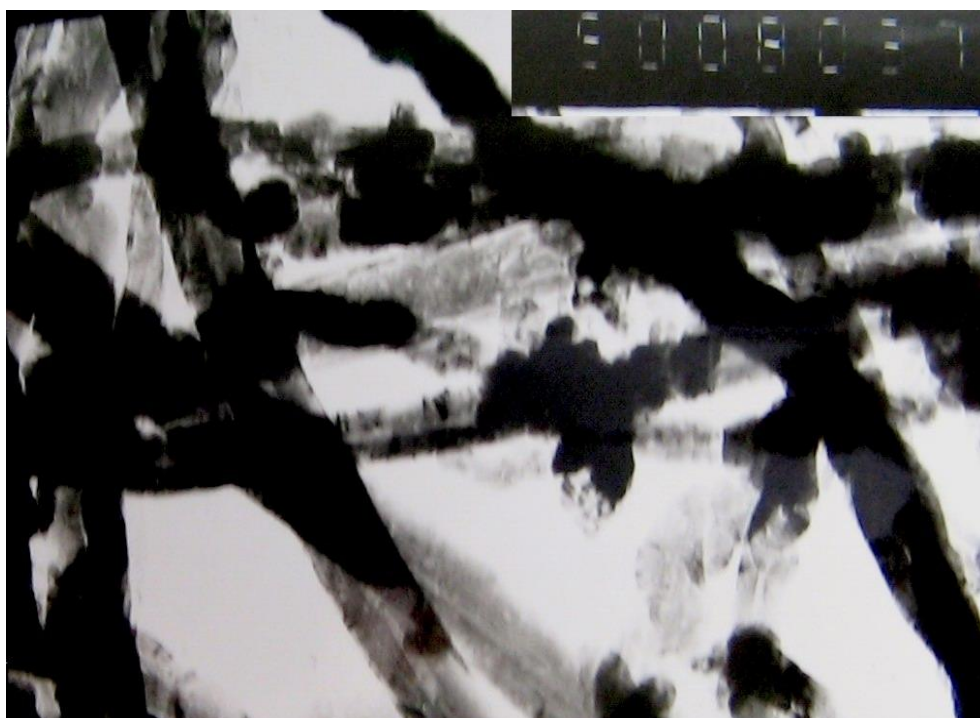
EC: >100s/cm [EC=Electric Conductivity]

Making method: CVD

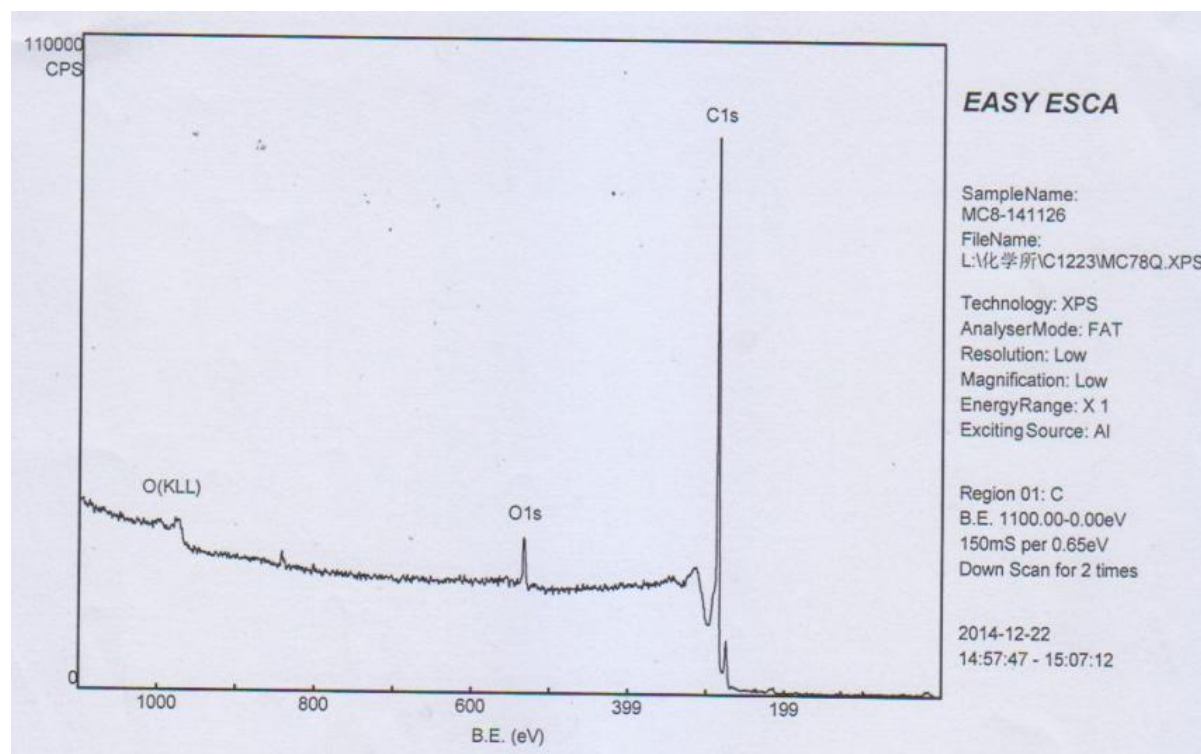
Testing pictures



Scanning Electron Microscopy (SEM)



TEM



Components	Area(CPS)	Contents	Components
C	7400	0.25	96.07%
O	800	0.66	3.93%

XPS

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