

Technical data

Categories No: TNIMC4

Name: Industrial Grade -COOH Functionalized Multi-walled Carbon Nanotubes

Purity: >95%

-COOH Content: 1.55 wt% (The rate of surface carbon atom: 8-10mol%)

OD: 10-30nm [OD=Outer Diameter]

ID: 5-10nm [ID=Inner Diameter]

Length: 10-30um

SSA: >110m²/g [SSA=Special Surface Area]

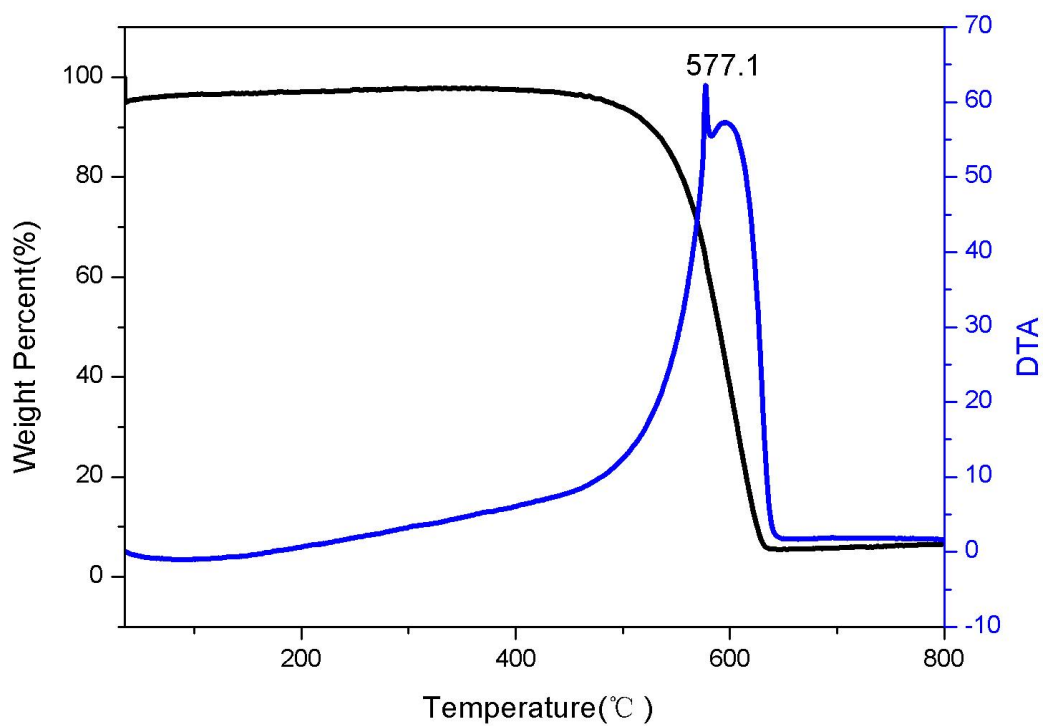
Color: Black

Tap density: 0.14 g/cm³

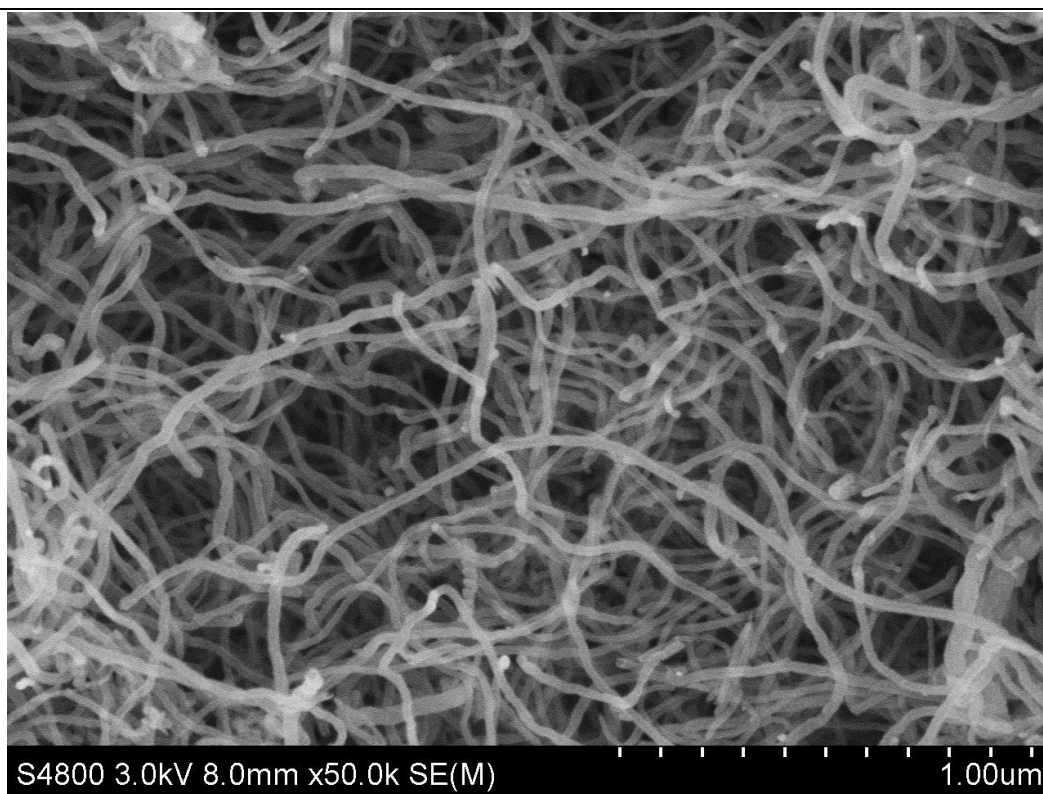
True density: ~2.1 g/cm³

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

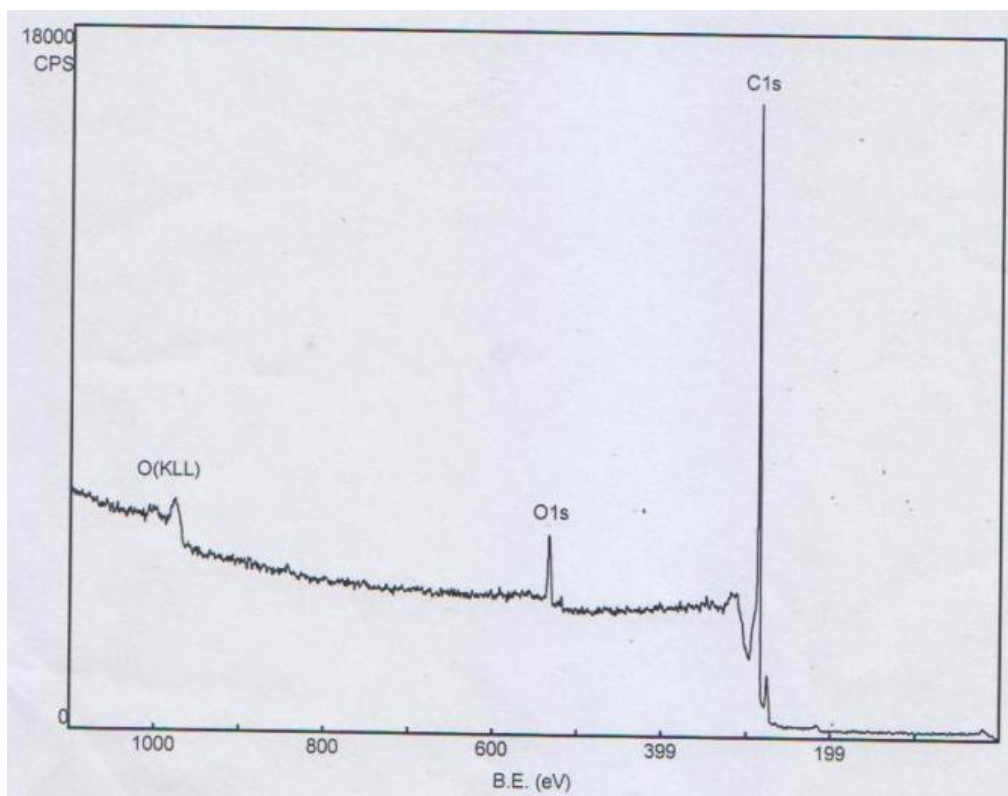
Making method: CVD



TGA



SEM



Components	Area(CPS)	Contents	Components
C	7500	0.25	95.19%
O	1000	0.66	4.81%

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