

Technical data

Categories No: TNSC

Name: Purified -COOH Functionalized Single-walled Carbon

Nanotubes (SWCNTs-COOH)

Purity: >90%

-COOH Content: 2.73wt%

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

Diameter: 1-2nm

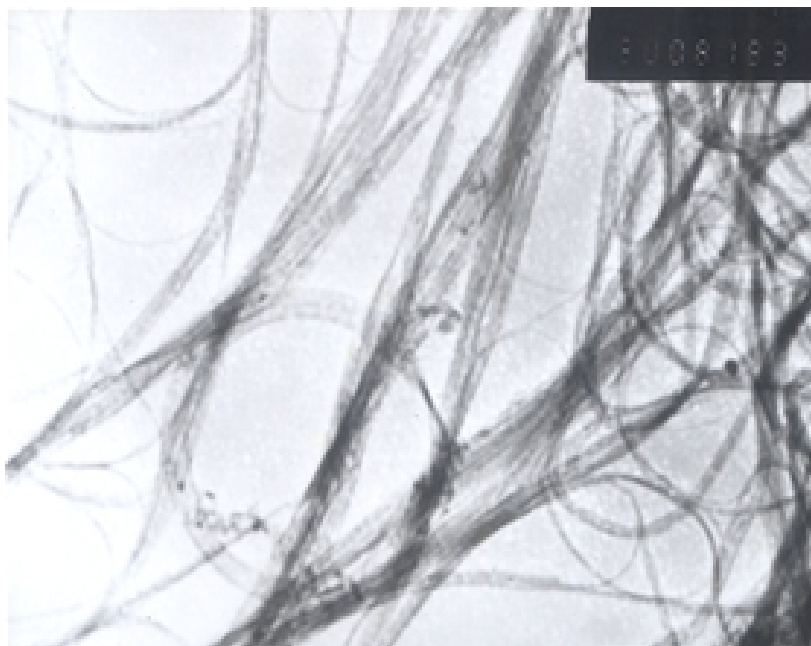
Length: 5-30um

SSA: >320m²/g [SSA=Specific Surface Area]

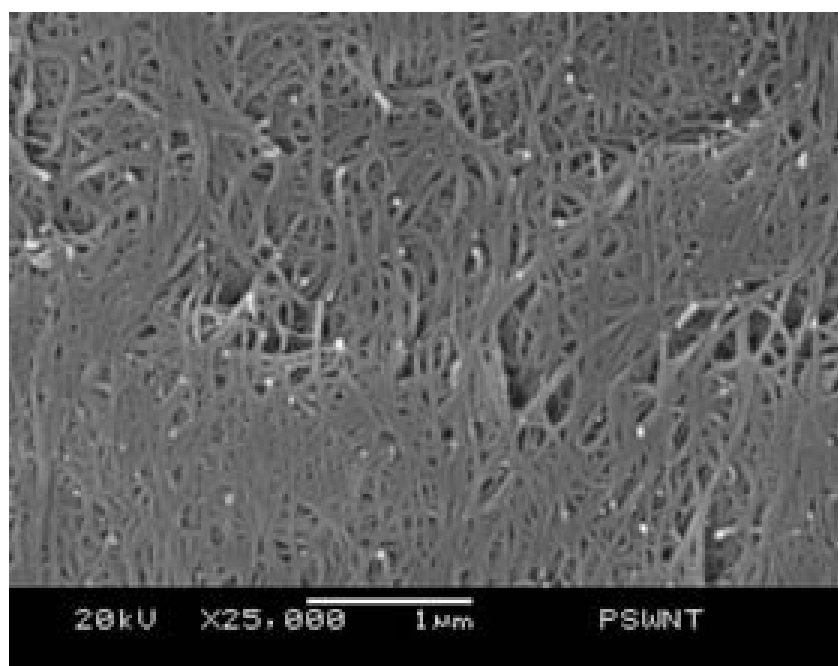
Color: Black

Making method: CVD

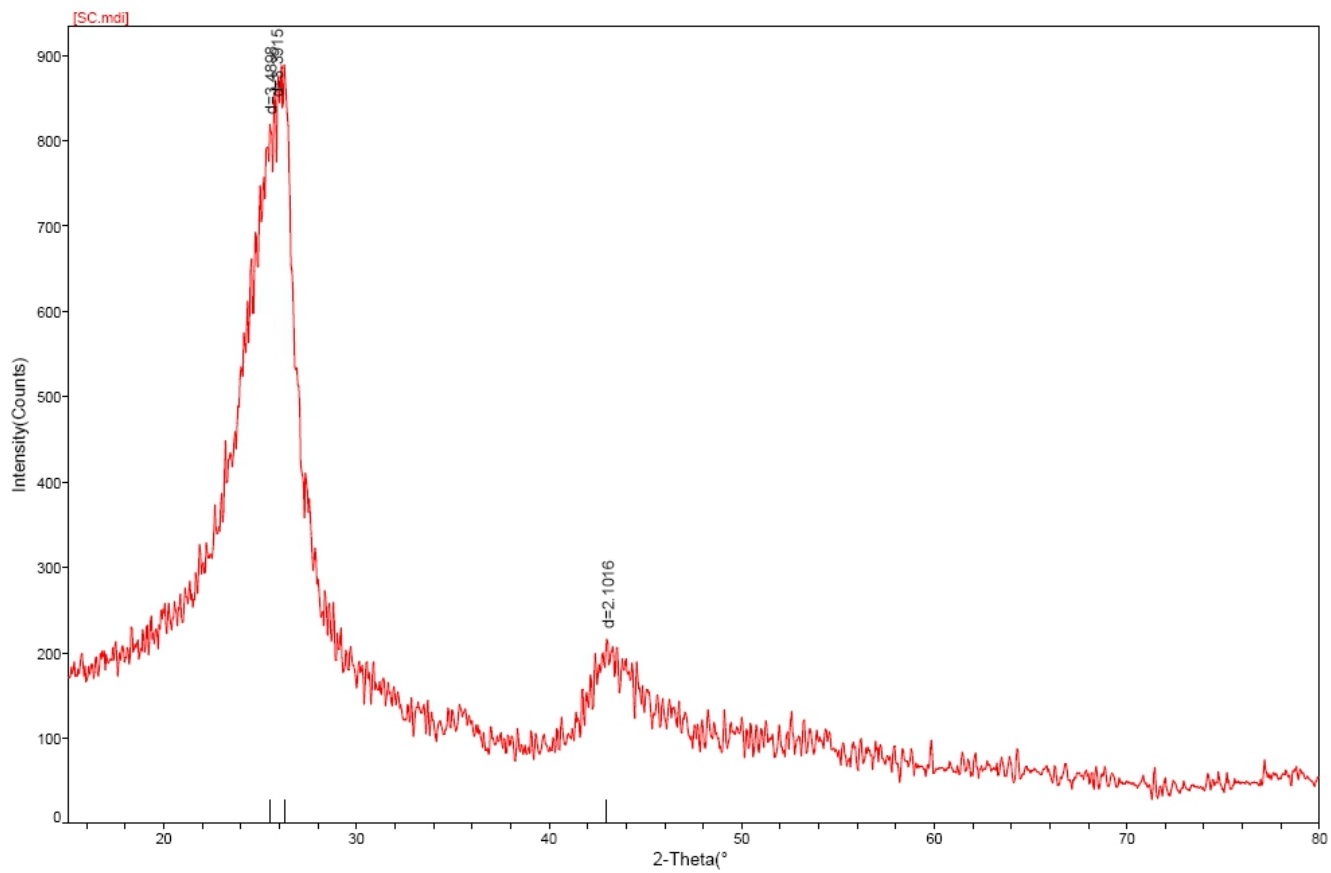
Testing pictures



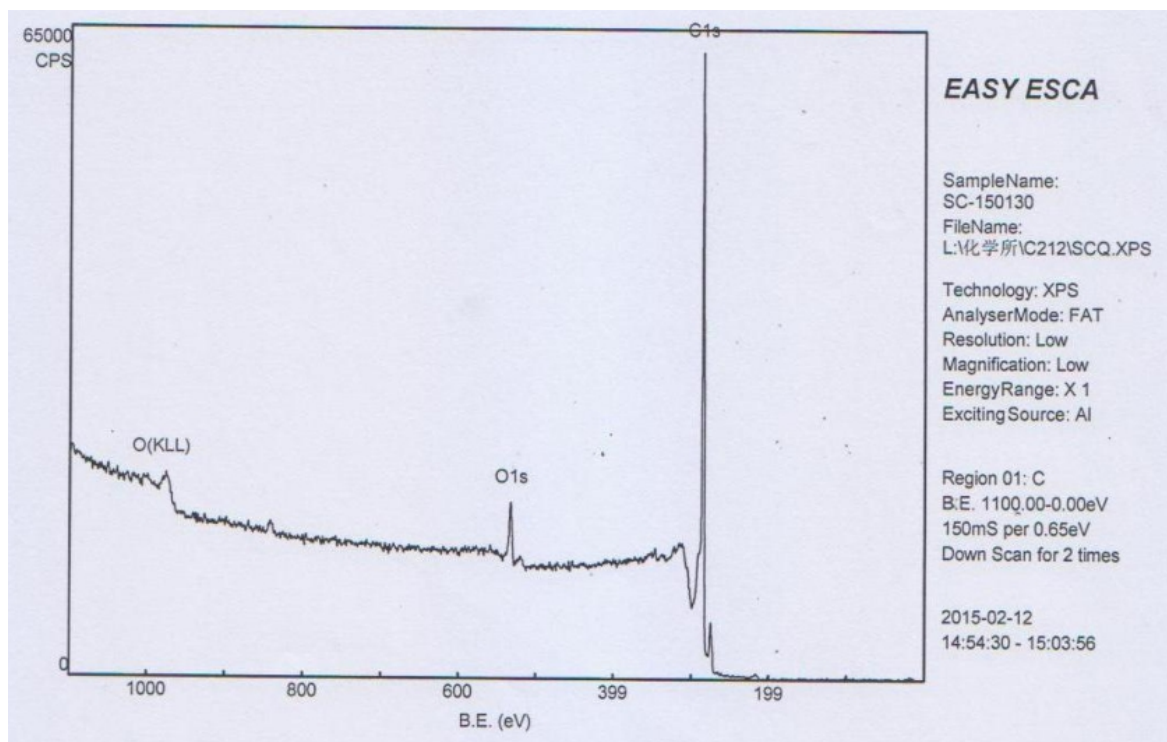
Transmission Electron Microscopy (TEM)



Scanning Electron Microscopy (SEM)

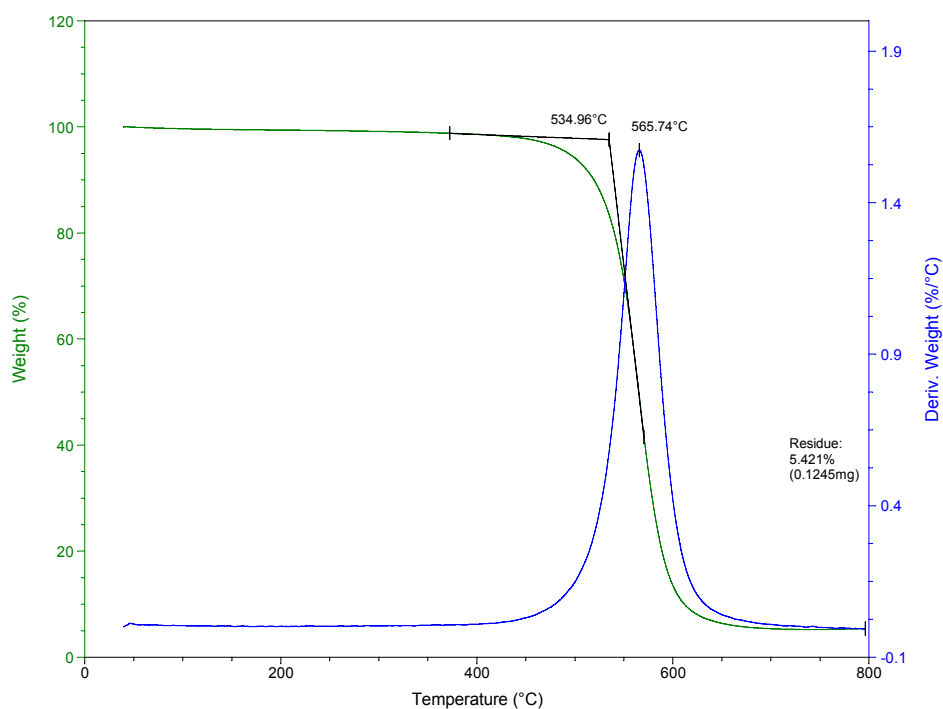


XRD



Components	Area(CPS)	Contents	Components
C	7400	0.25	95.13%
O	1000	0.66	4.87%

xps



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