

Technical data

Categories No: TNSH

Name: Purified -OH Functionalized Single-walled Carbon Nanotubes
(SWCNTs-OH)

Purity: >90%

-OH Content: 3.96wt%

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

Diameter: 1-2nm

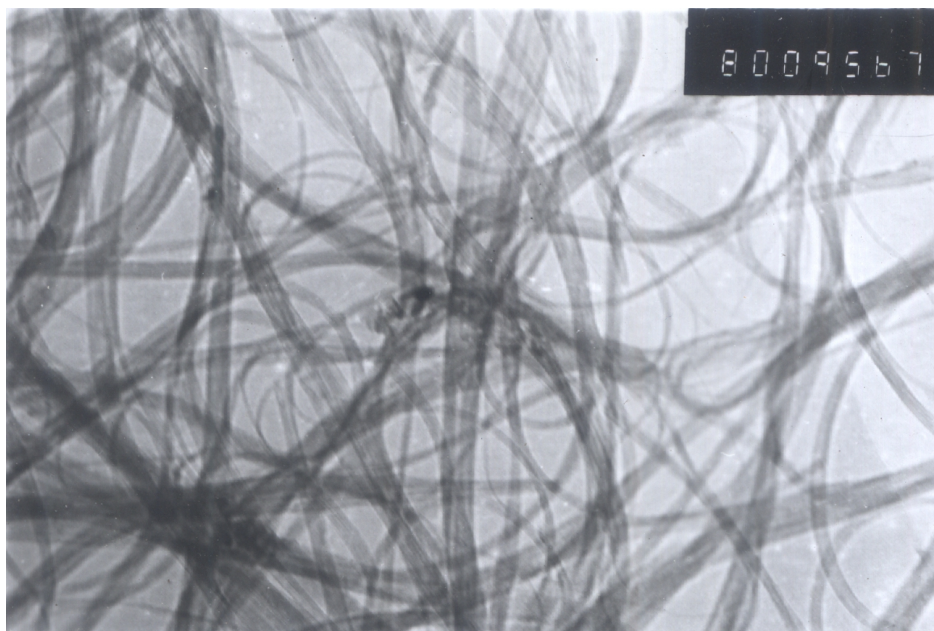
Length: 5-30um

SSA: >300m²/g [SSA=Specific Surface Area]

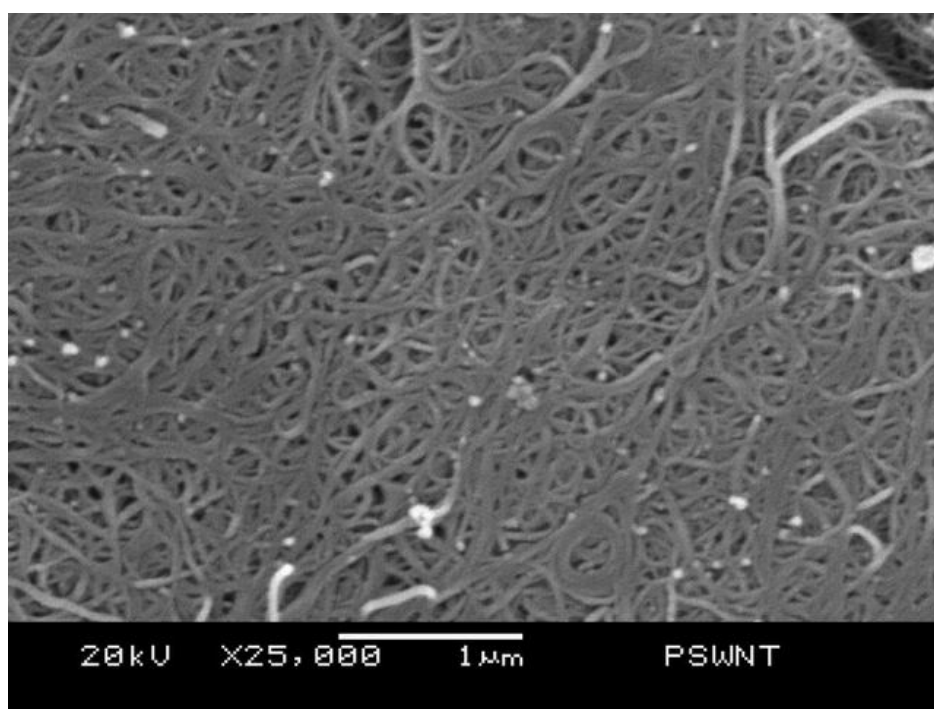
Color: Black

Making method: CVD

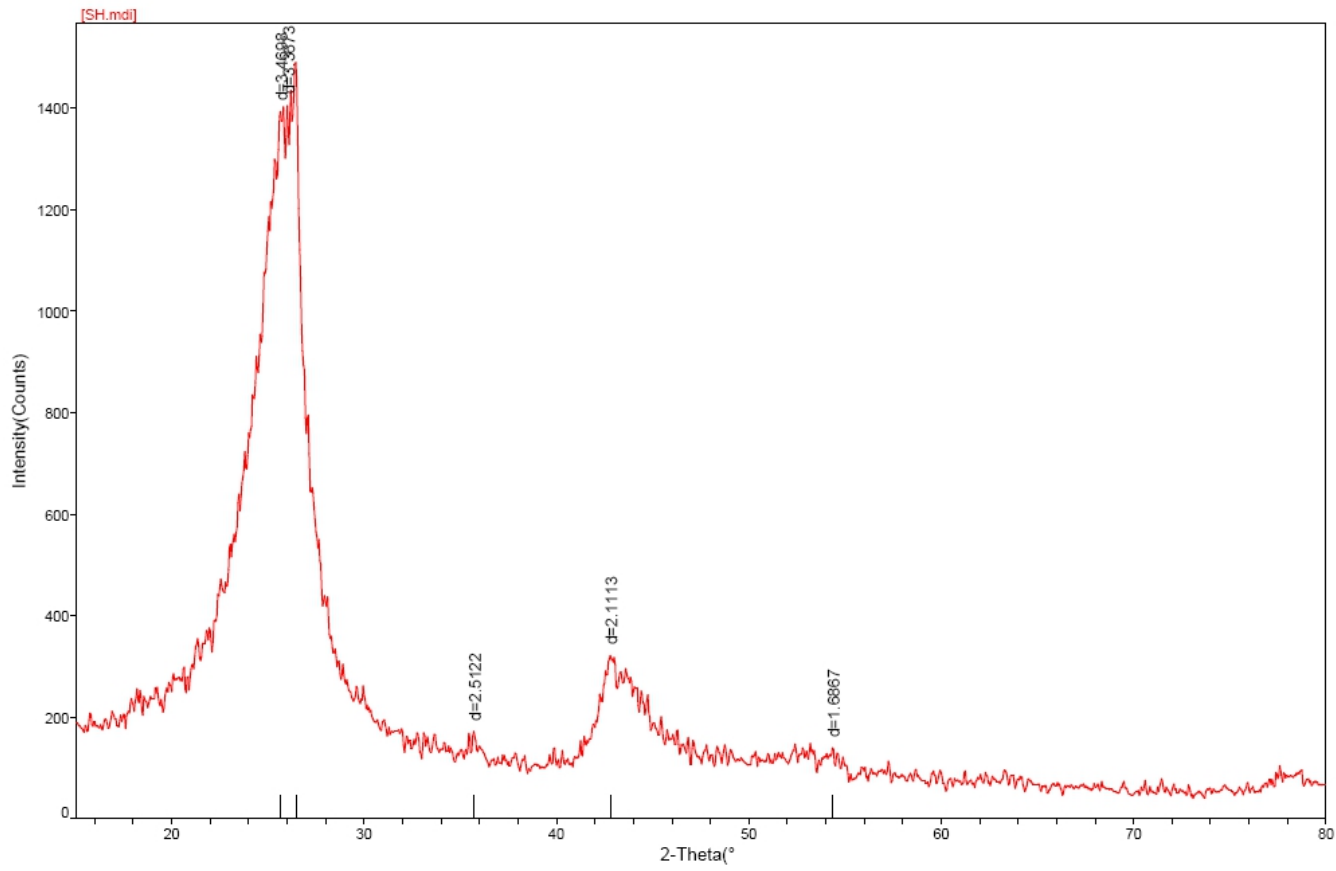
Testing pictures



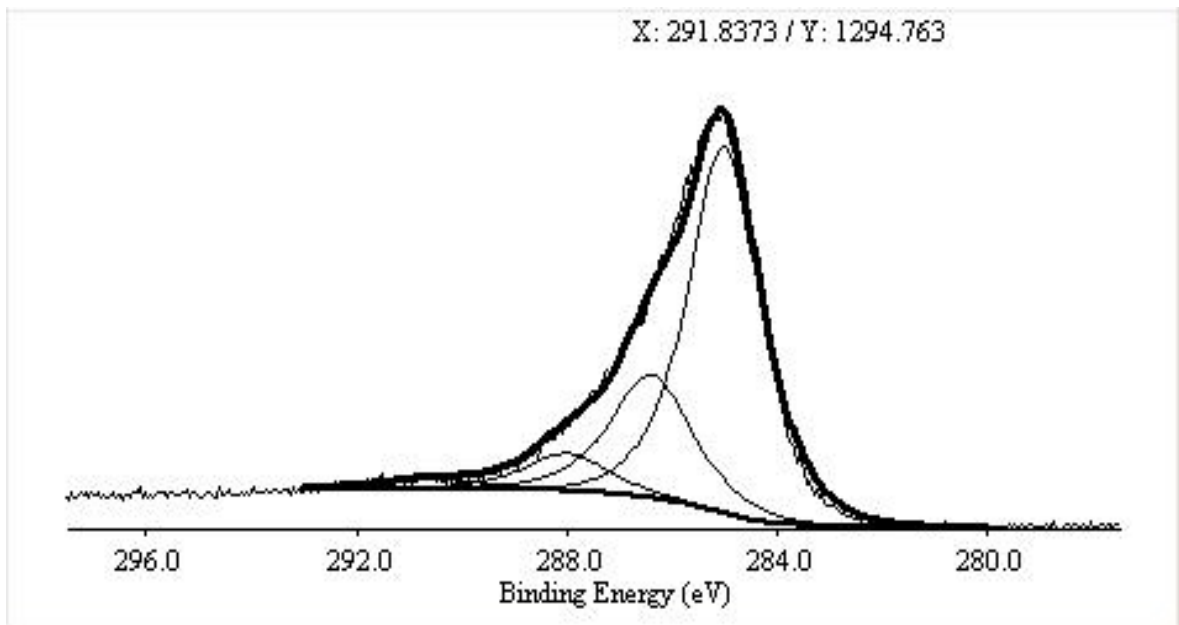
Transmission Electron Microscopy (TEM)



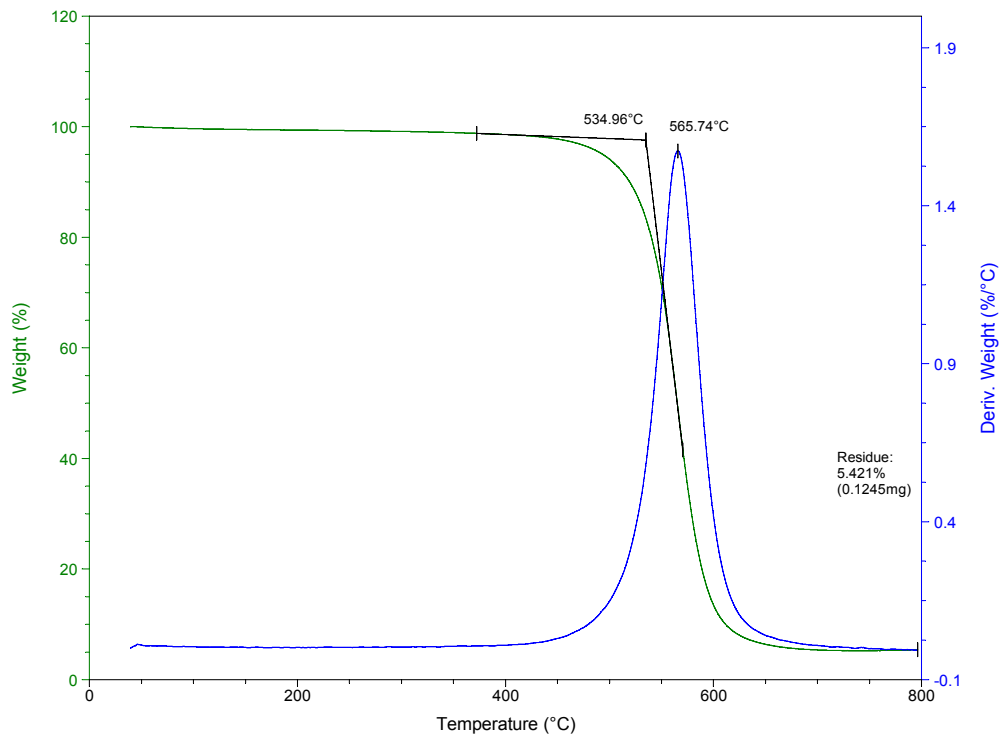
Scanning Electron Microscopy (SEM)



XRD

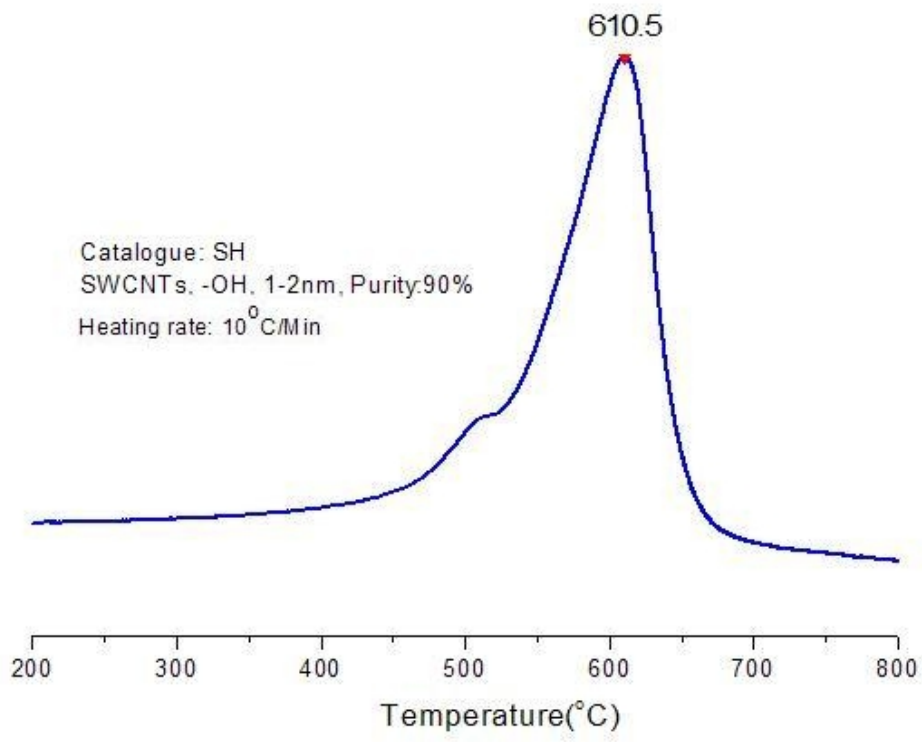


Xps



TGA

TPO(Temperature Programmed Oxidation)



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