

Technical data

Categories No: TNSMC1

Name: Short -COOH Functionalized Purified Multi-walled Carbon Nanotubes

(Short-MWCNTs-COOH)

Purity: >98%

-COOH Content: 3.86wt%

OD: 5-15nm [OD=Outer Diameter]

ID: 2-5nm [ID=Inner Diameter]

Length: 0.5-2um

SSA: >270m²/g [SSA=Special Surface Area]

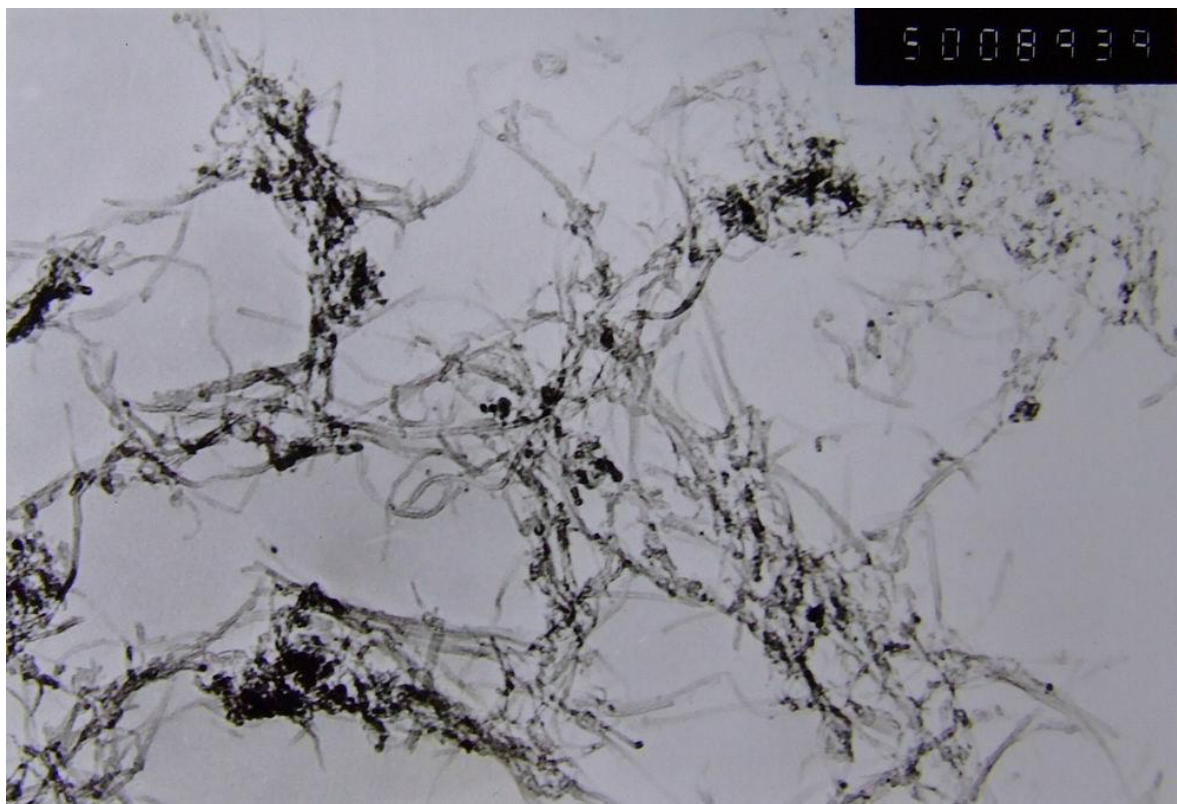
Color: Black

Tap density: 0.27 g/cm³

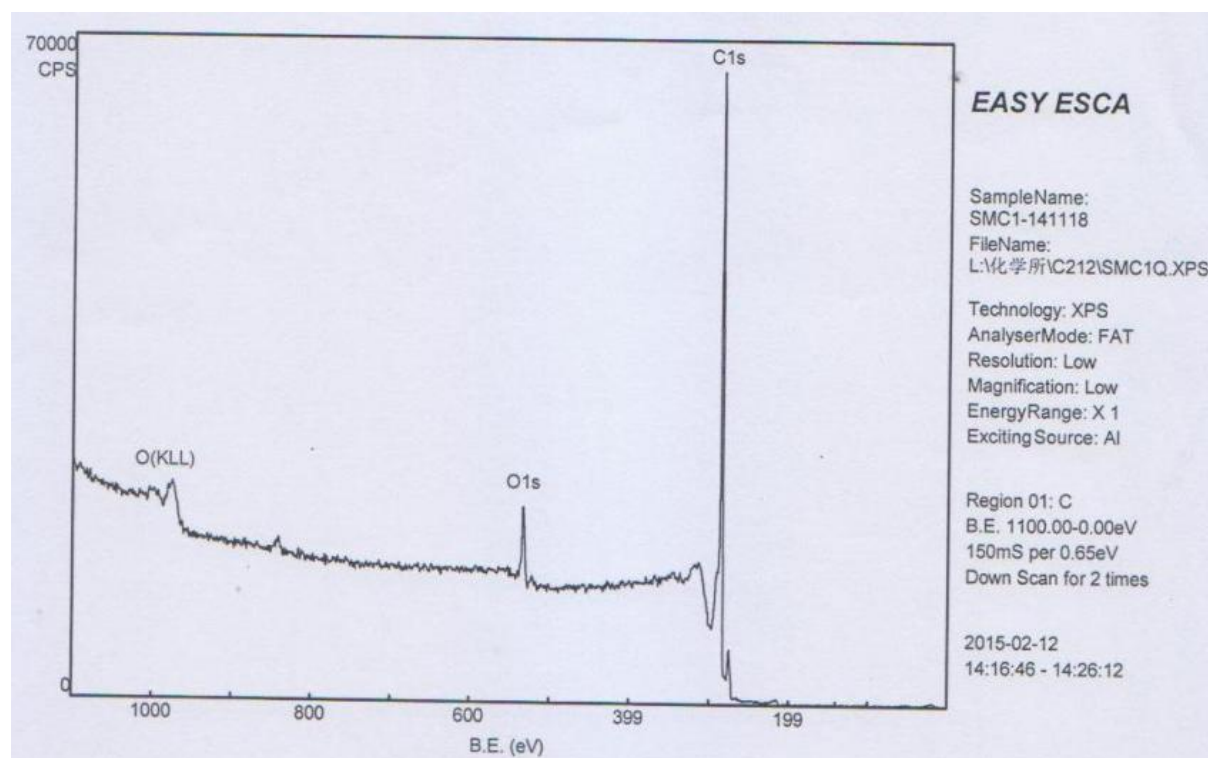
True density: ~2.1 g/cm³

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

Making method: CVD



TEM



XPS

Components	Area(CPS)	Contents	Components
C	7300	0.25	94.14%
O	1200	0.66	5.86%

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