

Technical data

Categories No: TNMCN7

Name: N-doped Multi-walled Carbon Nanotubes(MWCNTs)

Purity: >98%

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

Length: 10-30um

SSA: >78.9m²/g [SSA=Special Surface Area]

Color: Black

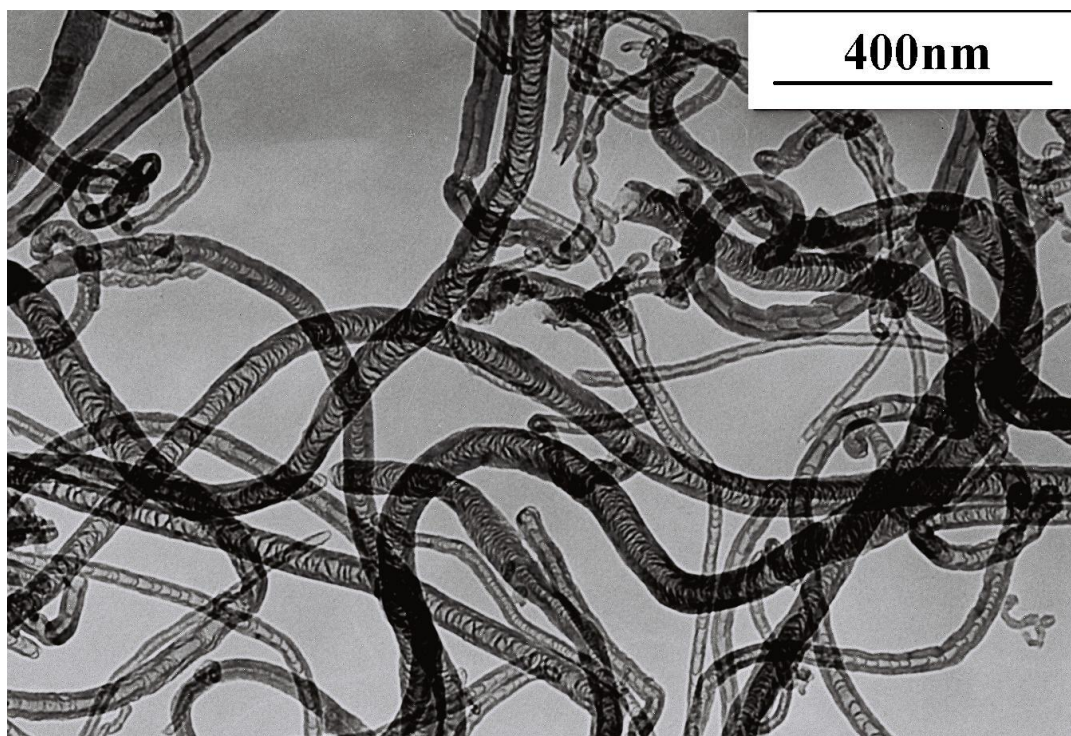
Ignited temperature: 460°C

Tap density: 0.27g/cm³

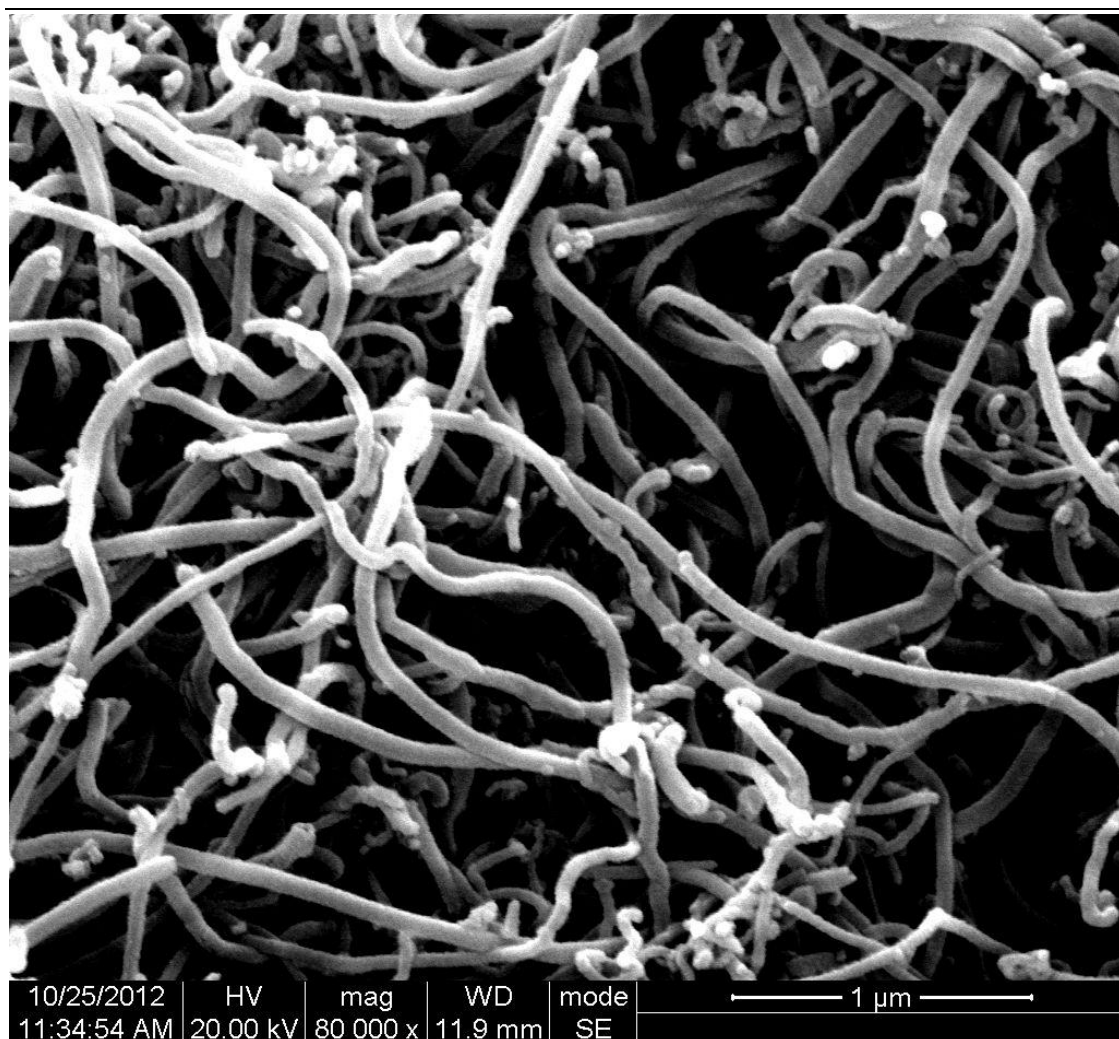
EC:>100s/cm [EC=Electric Conductivity]

Making method: CVD

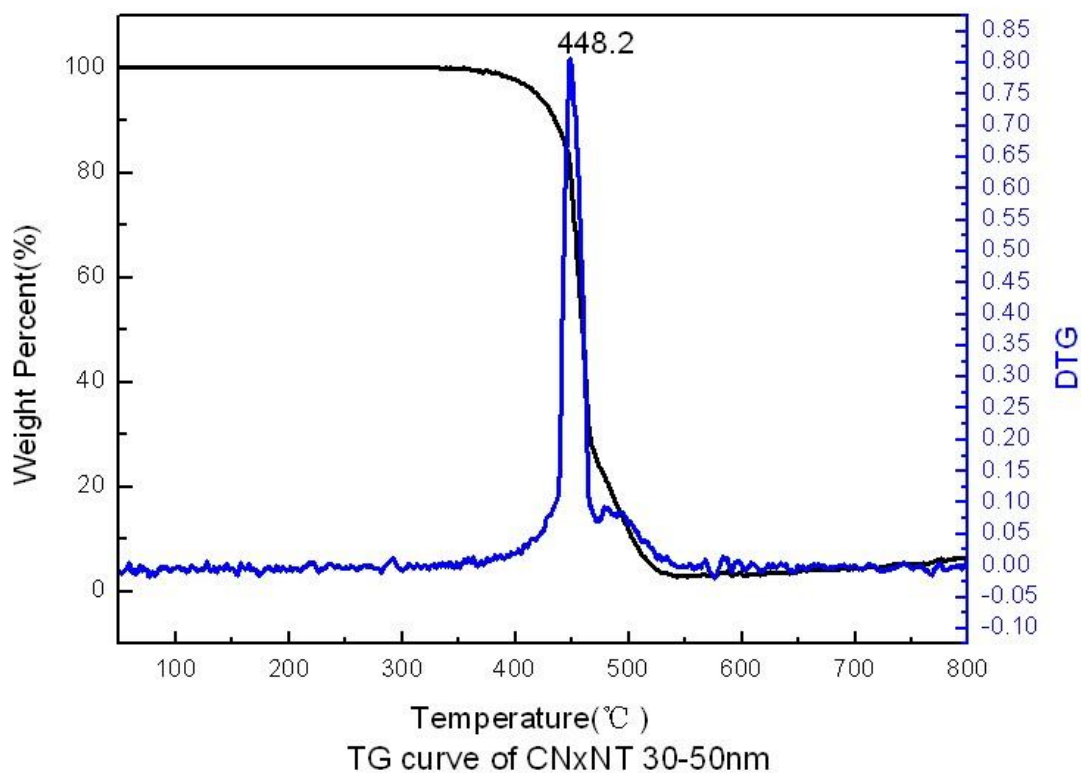
Testing pictures



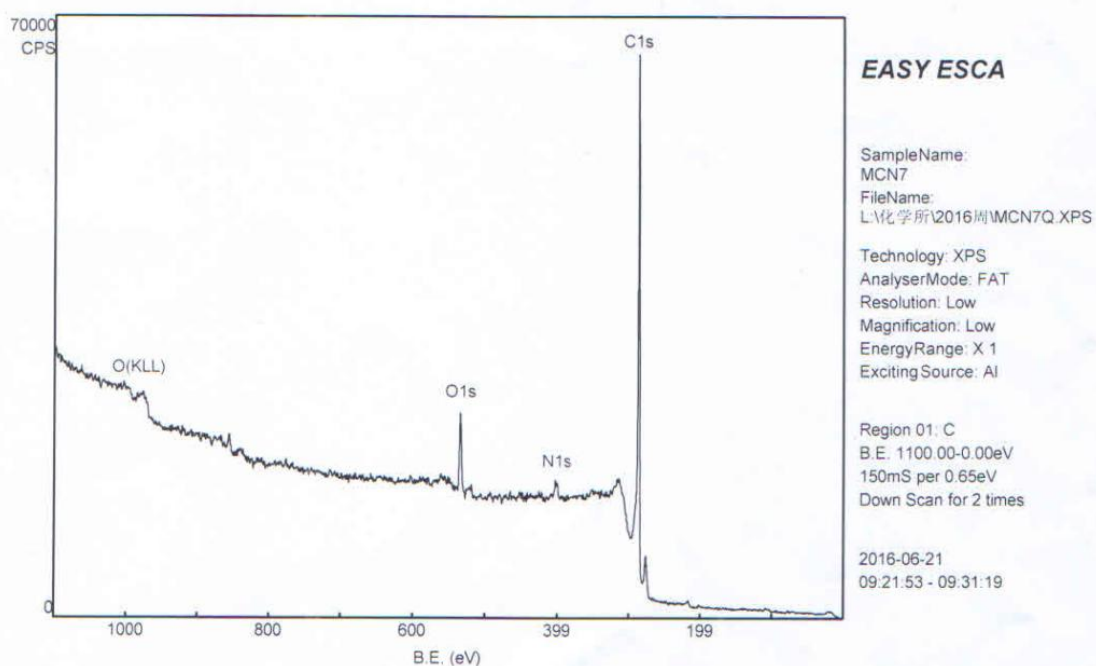
Transmission Electron Microscopy (TEM)



Scanning Electron Microscopy (SEM)



TGA



XPS

Components	Area(CPS)	Contents	Components
C	8000	0.25	91.63%
O	1300	0.66	5.64%
N	400	0.42	2.73%

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