

## Technical data

Categories No: TND

Name: Double-Walled Carbon Nanotubes (DWCNTs)

Purity: >60%

OD: 2-4nm [OD=Outer Diameter]

ID: 1-3nm [ID=Inner Diameter]

Length: ~50um

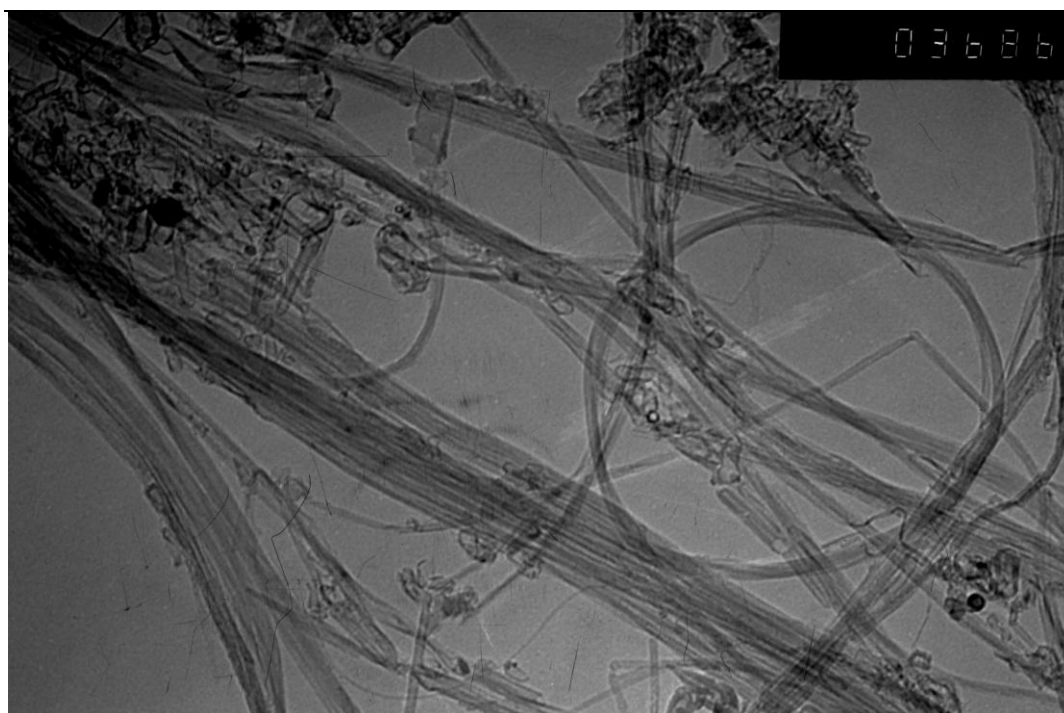
SSA: >340m<sup>2</sup>/g [SSA=Special Surface Area]

Color: Black

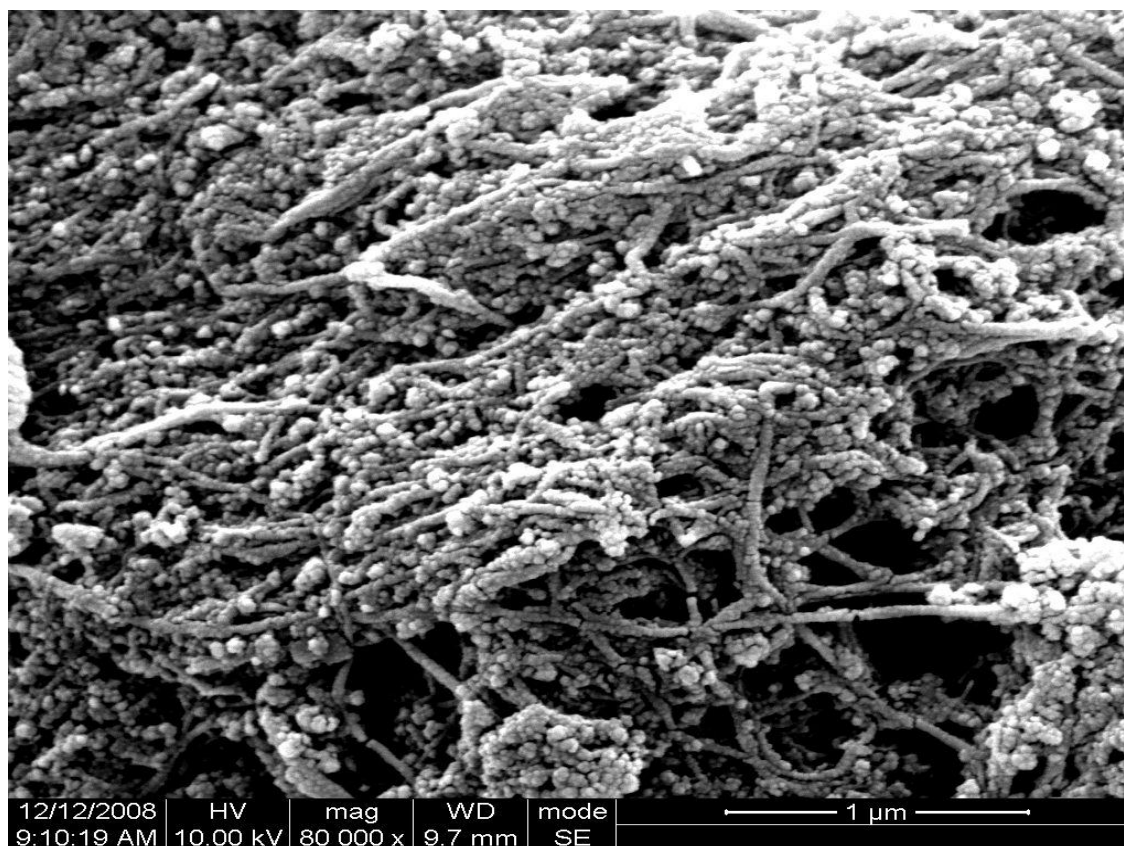
True density: ~2.1 g/cm<sup>3</sup>

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

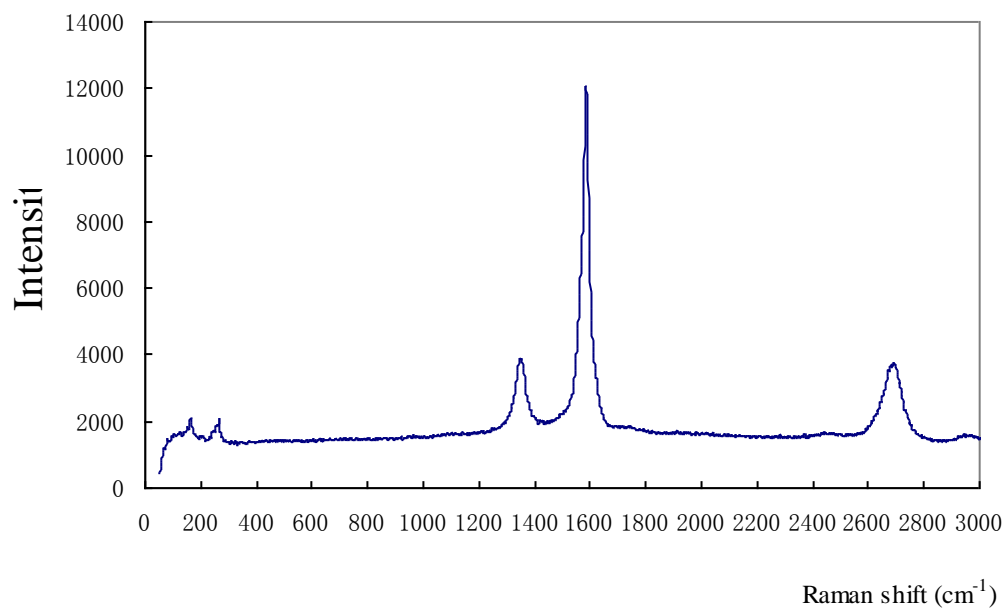
Making method: CVD



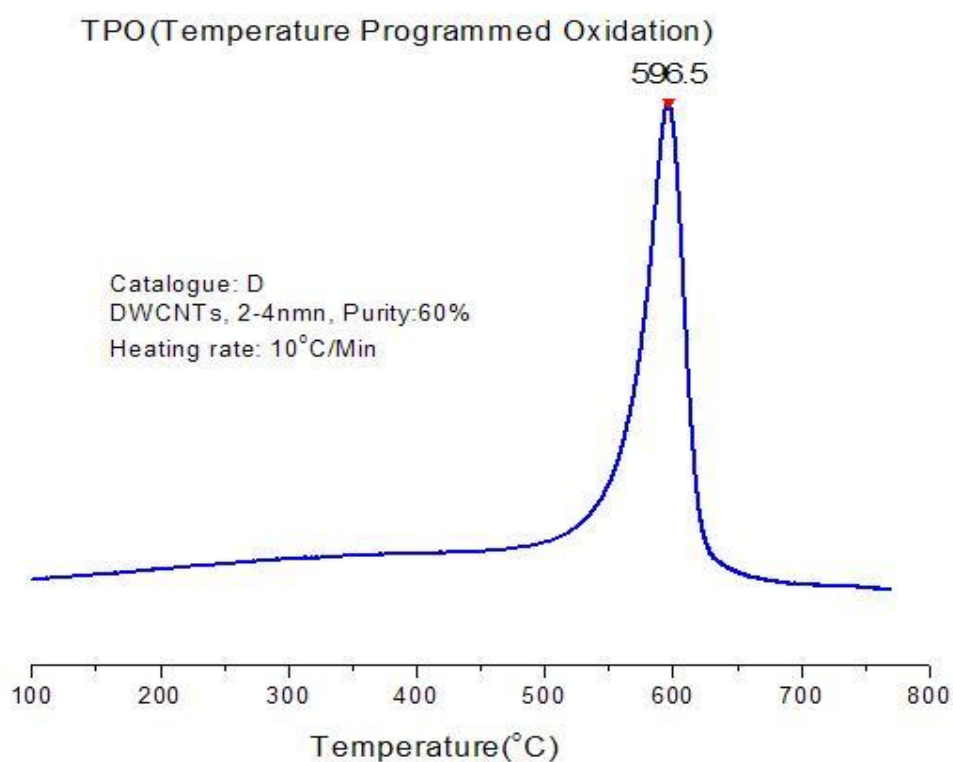
TEM



SEM



Raman Spectrum of DWNT



## **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