

## Technical data

Categories No: TNIS

Name: Industrial Single-walled carbon nanotubes (SWCNTs)

Purity: >60%

Diameter: 1-2nm

Length: 5-30um

SSA: >407m<sup>2</sup>/g [SSA=Special Surface Area]

Color: Black

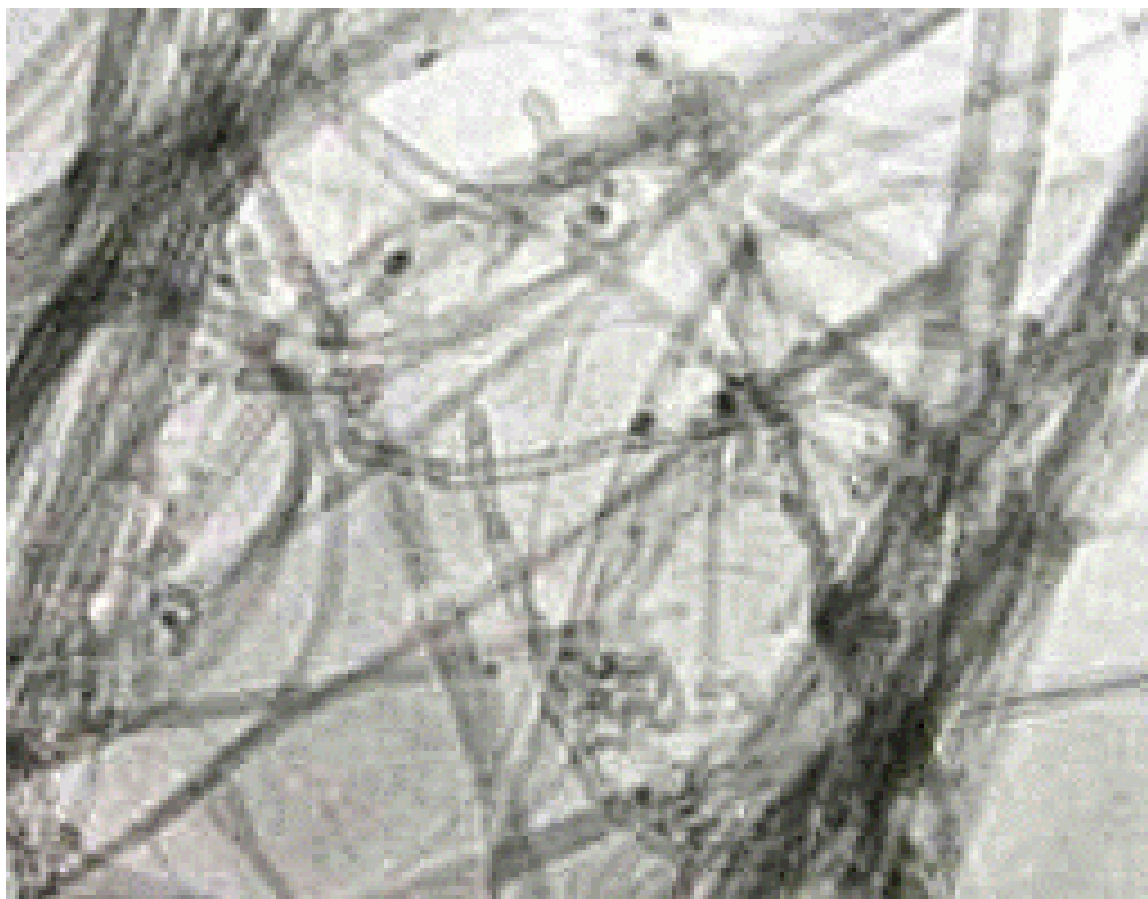
Tap density: 0.14 g/cm<sup>3</sup>

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

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

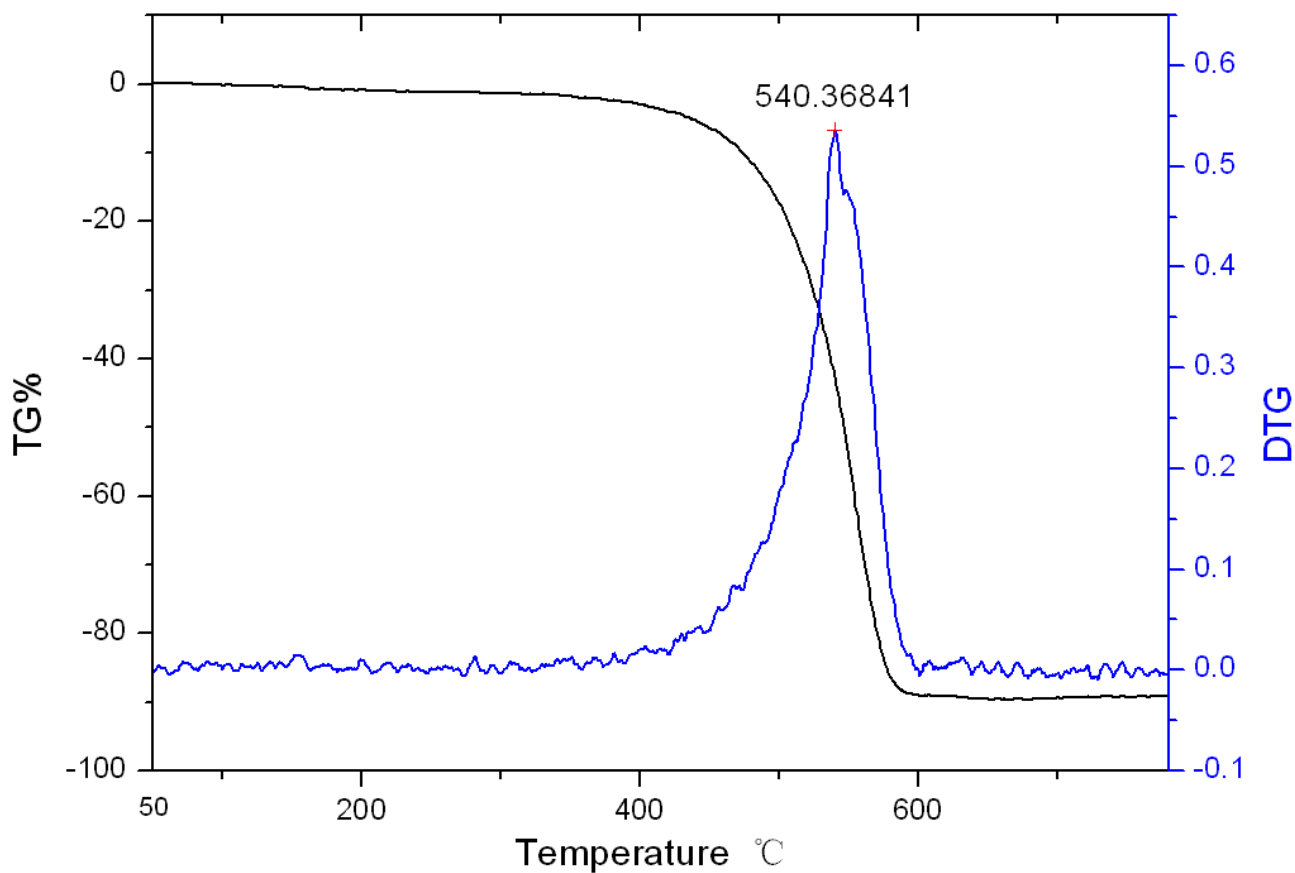
Making method: CVD

## Testing pictures

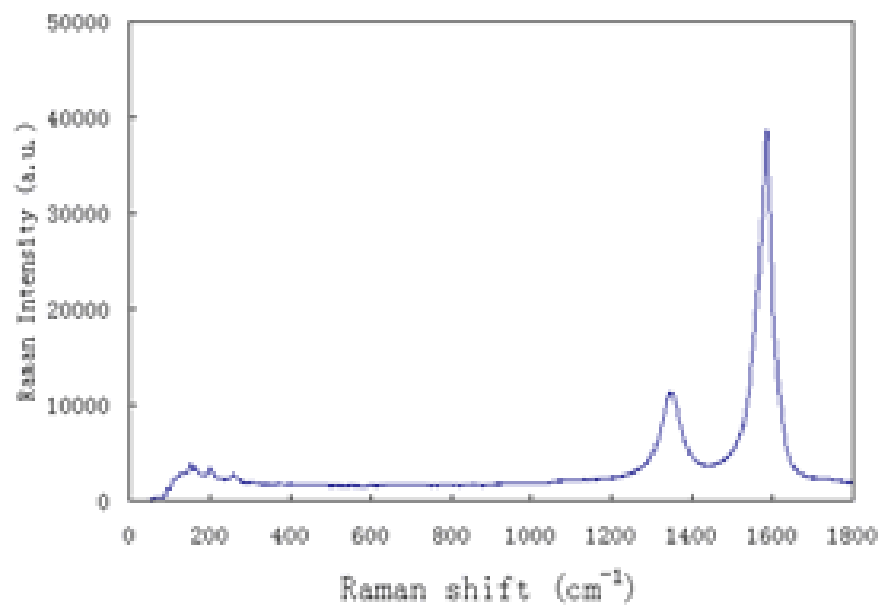


Transmission Electron Microscopy (TEM)

SWNT OD: 1-2nm, Purity:>60%



TG Curve of 1-2nm,>60% SWNT



Raman Spectra

## **Application instruction**

Potential Application of Carbon Nanotubes

Additives in polymers

Catalysts

Electron field emitters for cathode ray lighting elements

Flat panel display

Gas-discharge tubes in telecom net works

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