

## Technical data

Categories No: TNSS

Name: Short Single-walled carbon nanotubes (Short-SWCNTs)

Purity: >90%

Diameter: 1-2nm

Length: 1-3um

SSA: >340m<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>

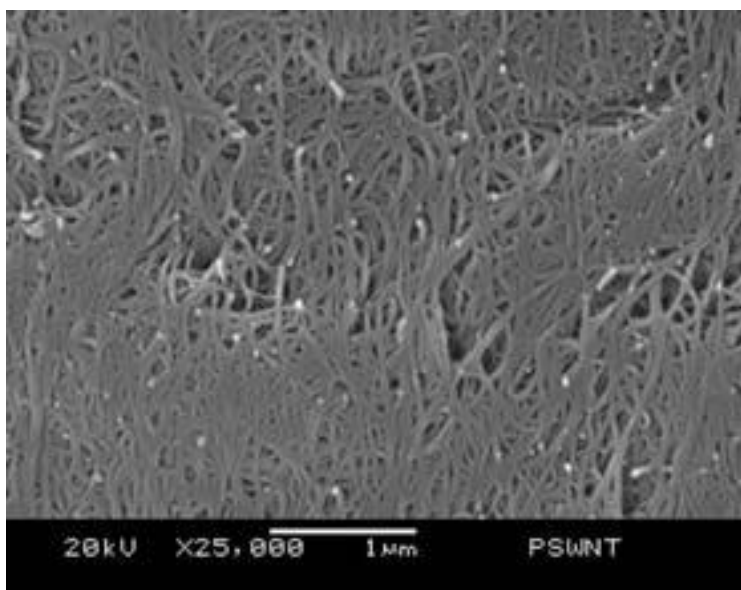
EC: >100s/cm [EC=Electric Conductivity]

Making method: CVD

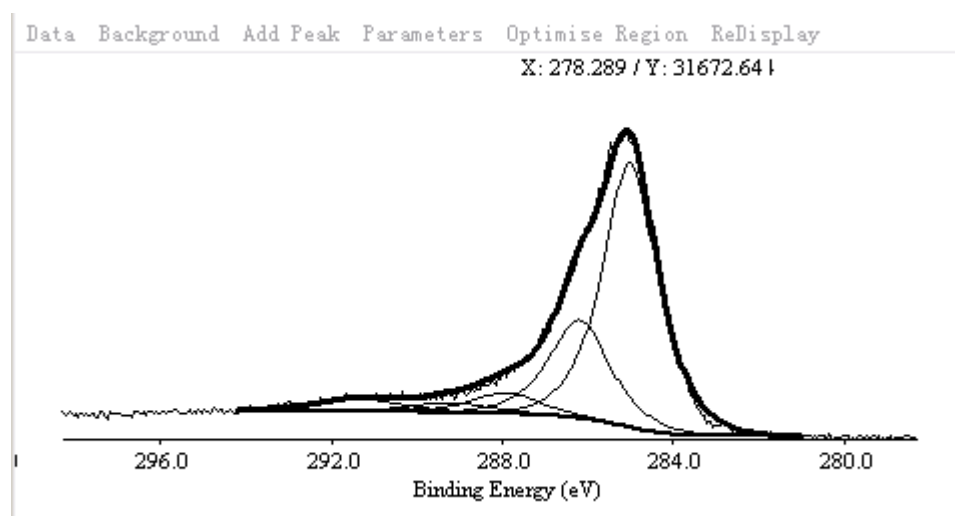
## Testing pictures



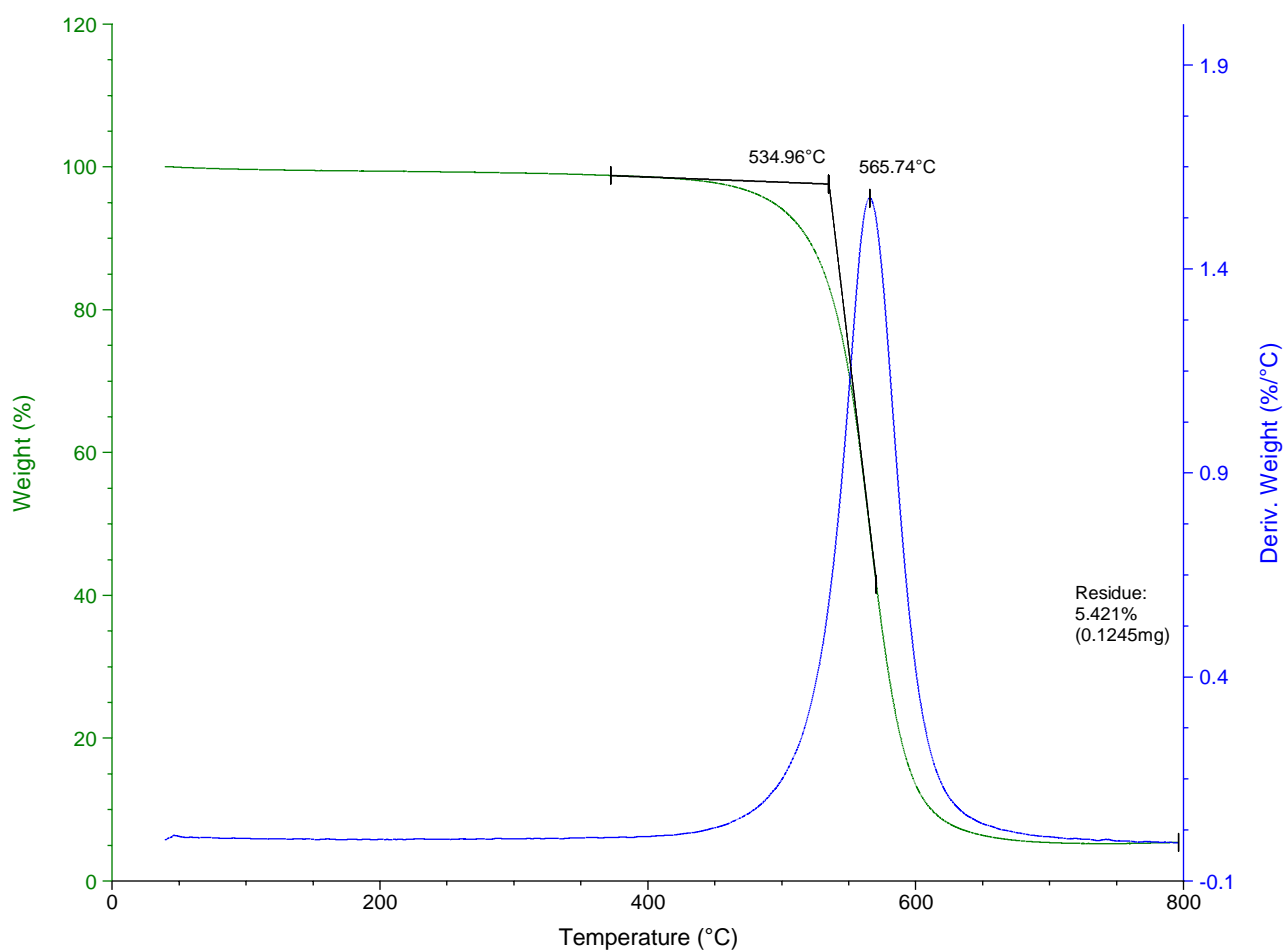
Transmission Electron Microscopy (TEM)



Scanning Electron Microscopy (SEM)



### XPS



### TGA

## **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