

## Technical data

Categories No: TNMC3

Name: -COOH Functionalized Purified Multi-walled Carbon Nanotubes  
(MWCNTs-COOH)

Purity: >98%

-COOH Content: 2.00wt%

(The rate of surface carbon atom: 8-10mol%)

OD:10-20nm [OD=Outer Diameter]

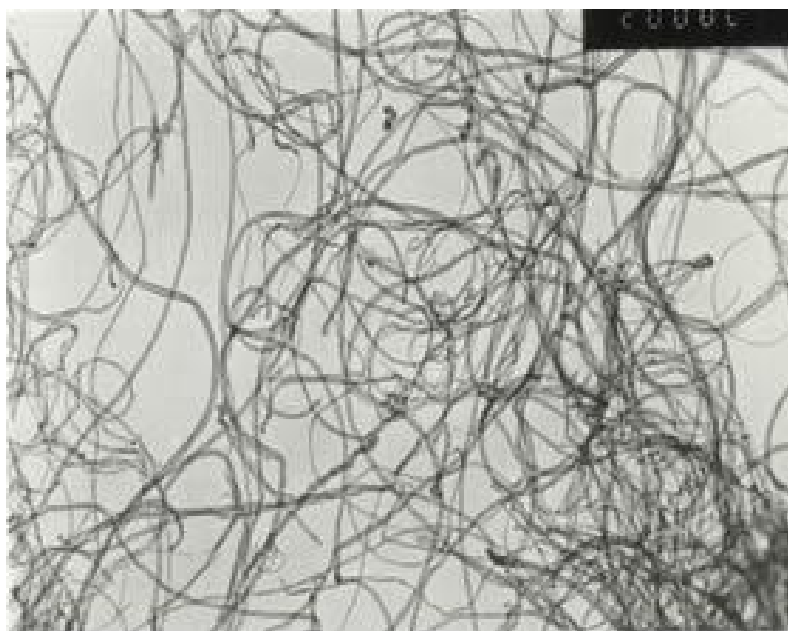
Length: 10-30um

SSA: >90m<sup>2</sup>/g [SSA=Specific Surface Area]

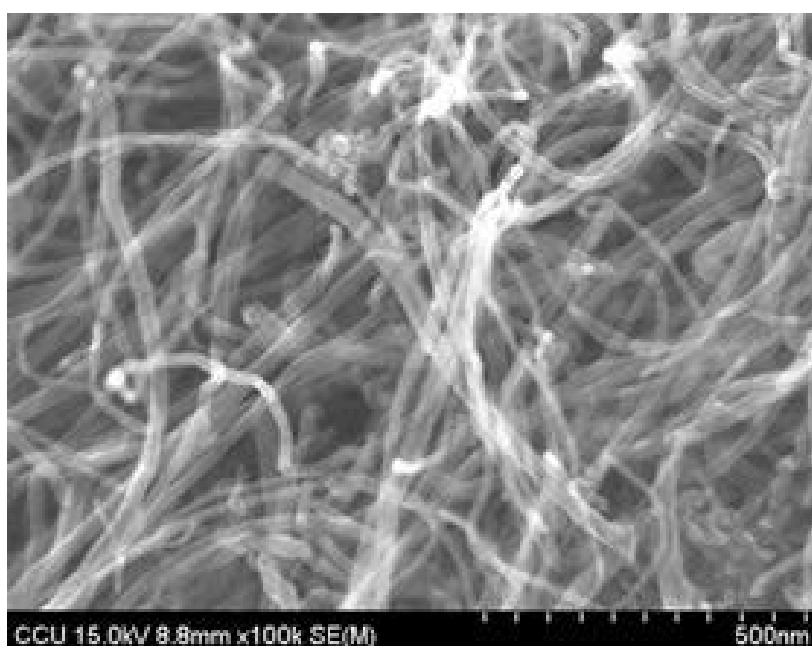
Color: Black

Making method: CVD

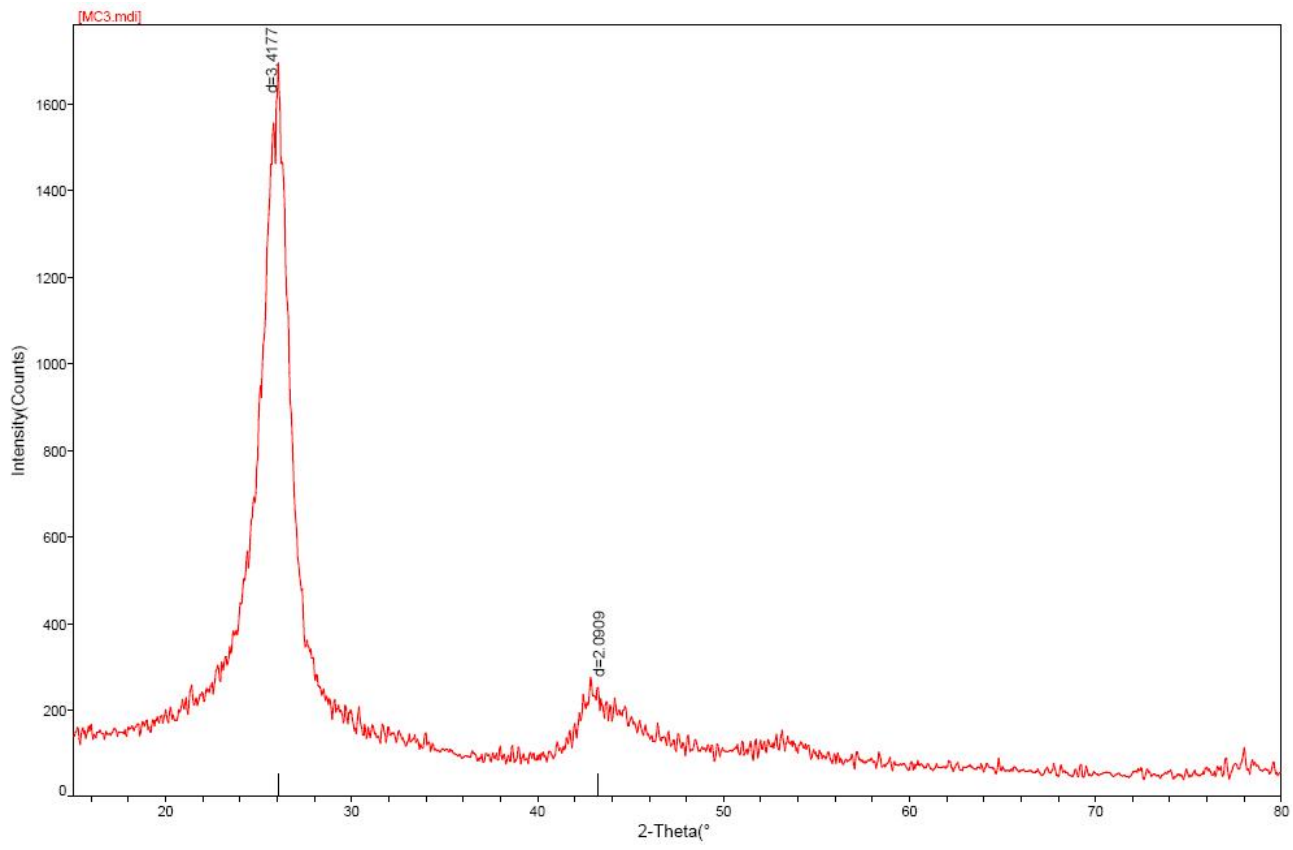
## Testing pictures



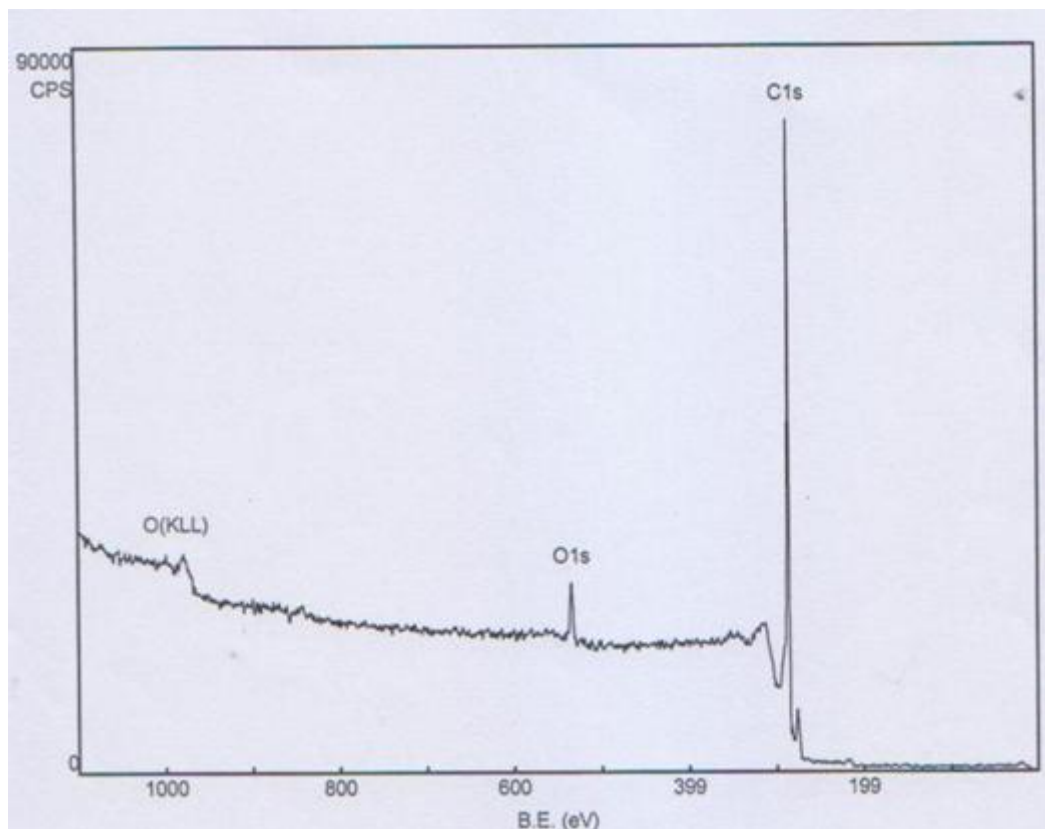
Transmission Electron Microscopy (TEM)



SEM

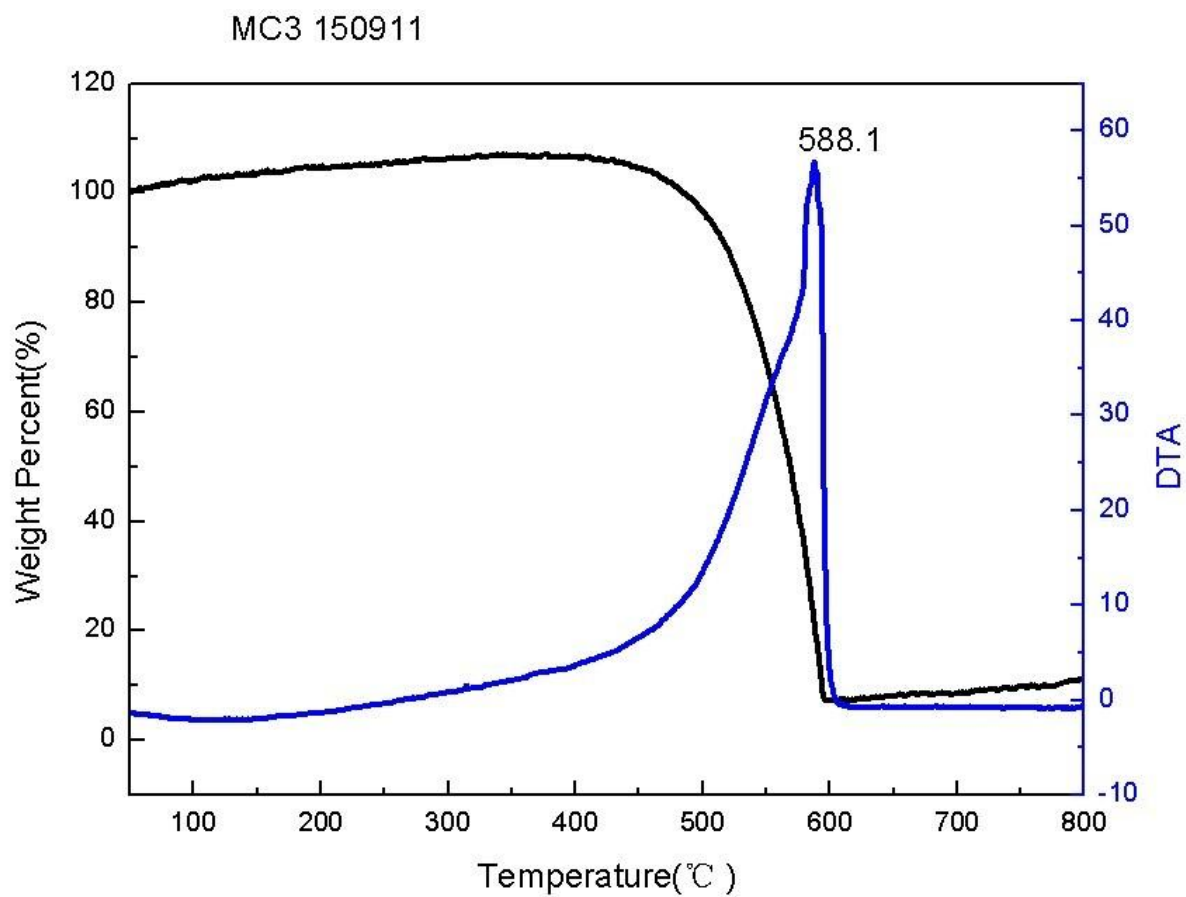


XRD

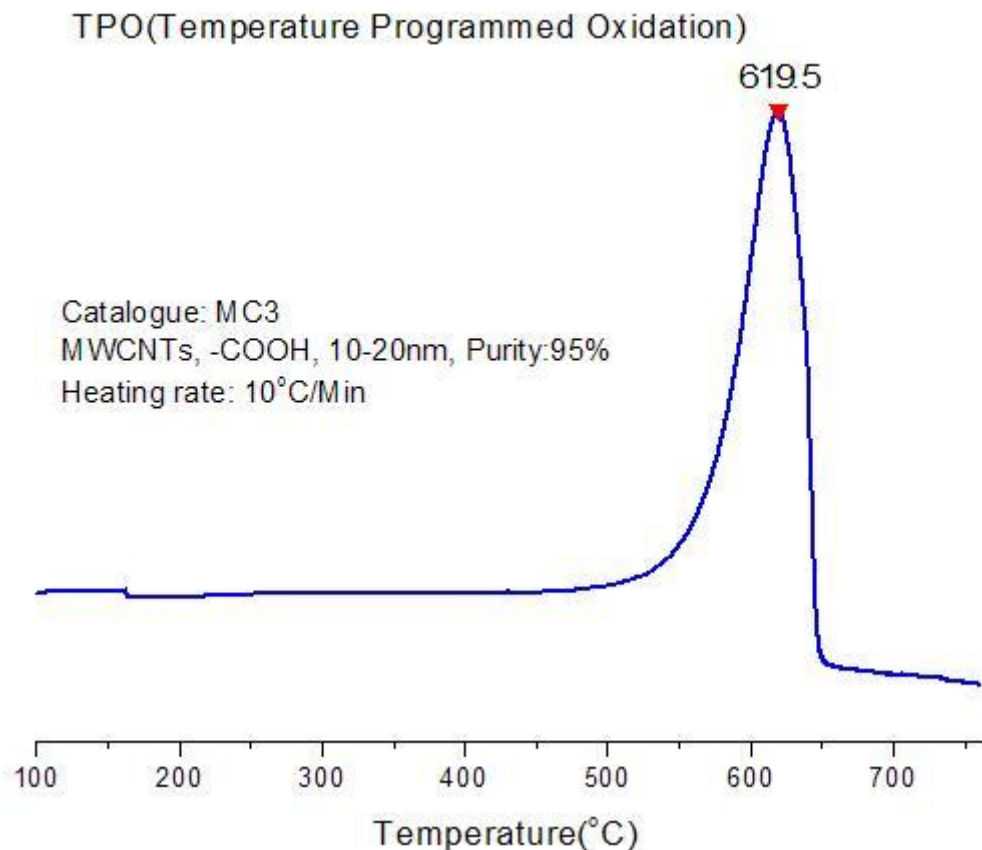


Components	Area(CPS)	Contents	Components
<b>C</b>	<b>7700</b>	<b>0.25</b>	<b>95.76%</b>
<b>O</b>	<b>900</b>	<b>0.66</b>	<b>4.24%</b>

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

**TIMESNANO** *Chengdu Zhongke Times Nano Energy Tech Co., Ltd.*

**Mail to:** [carbon@cioc.ac.cn](mailto:carbon@cioc.ac.cn) [times@cioc.ac.cn](mailto:times@cioc.ac.cn) [Http://www.timesnano.com](http://www.timesnano.com)

Tel:+86-28-85236765

Fax:+86-28-85215069

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drug delivery

sensors

Reinforcements in composites

Supercapacitor