

## Technical data

Categories No: TNIM8

Name: Industrial Grade Multi-walled Carbon Nanotubes

Purity: >95%

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

ID: 5-15nm [ID=Inner Diameter]

Length: <10 $\mu$ m

SSA: > 60m<sup>2</sup>/g [SSA=Special Surface Area]

Color: Black

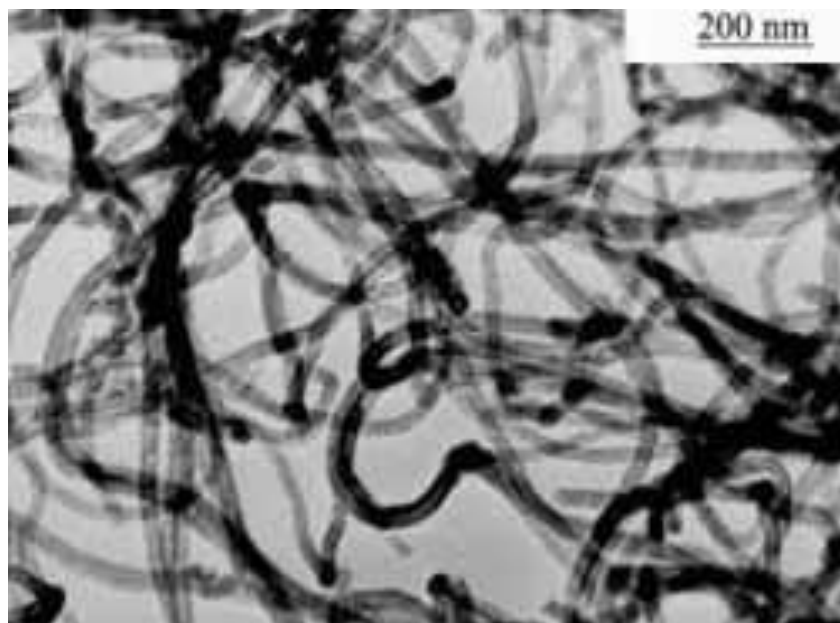
Tap density: 0.18 g/cm<sup>3</sup>

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

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

Making method: CVD

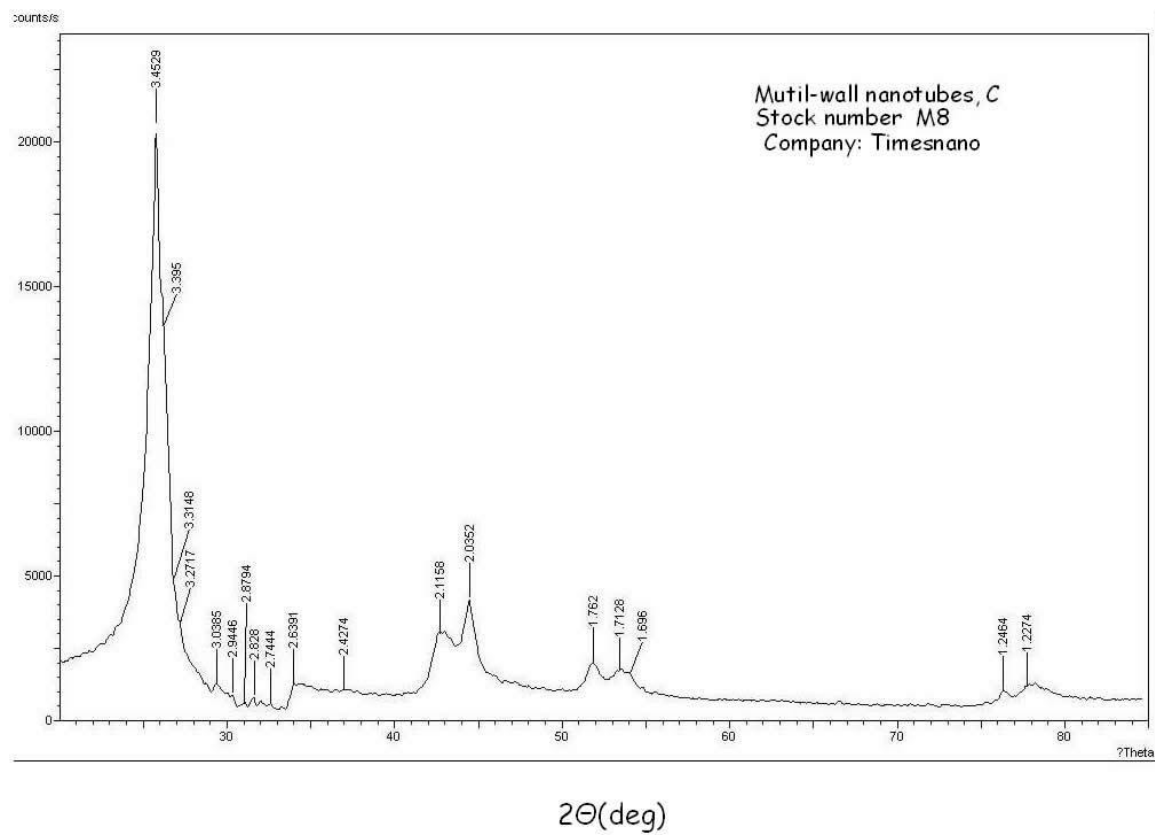
## Testing paper



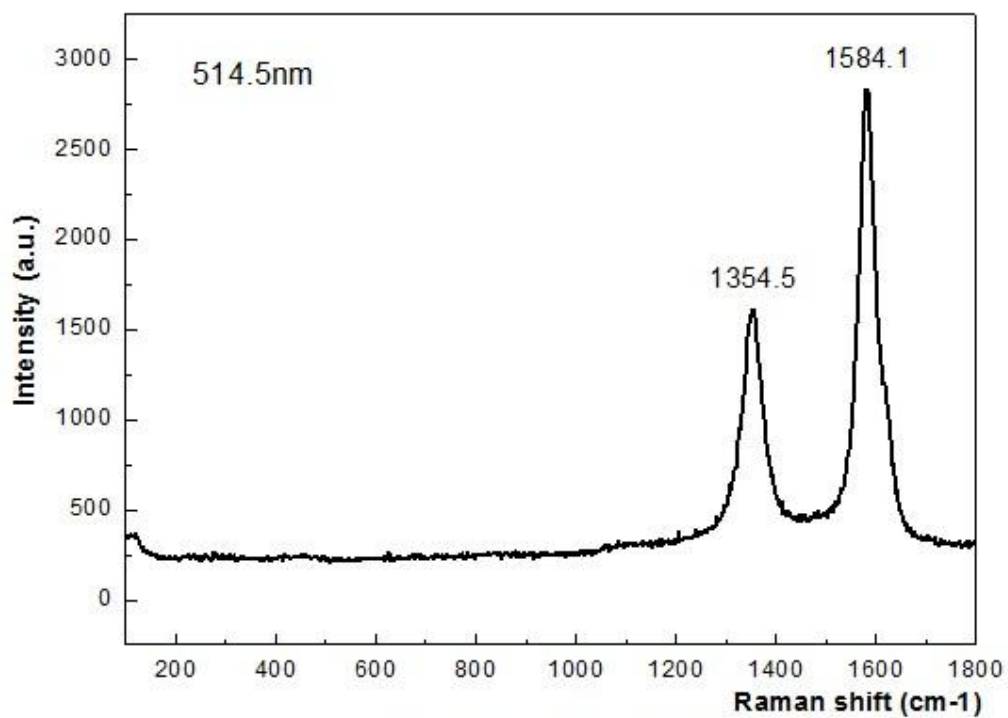
TEM (透射电子显微镜法)



(SEM) (扫描电子显微镜法)

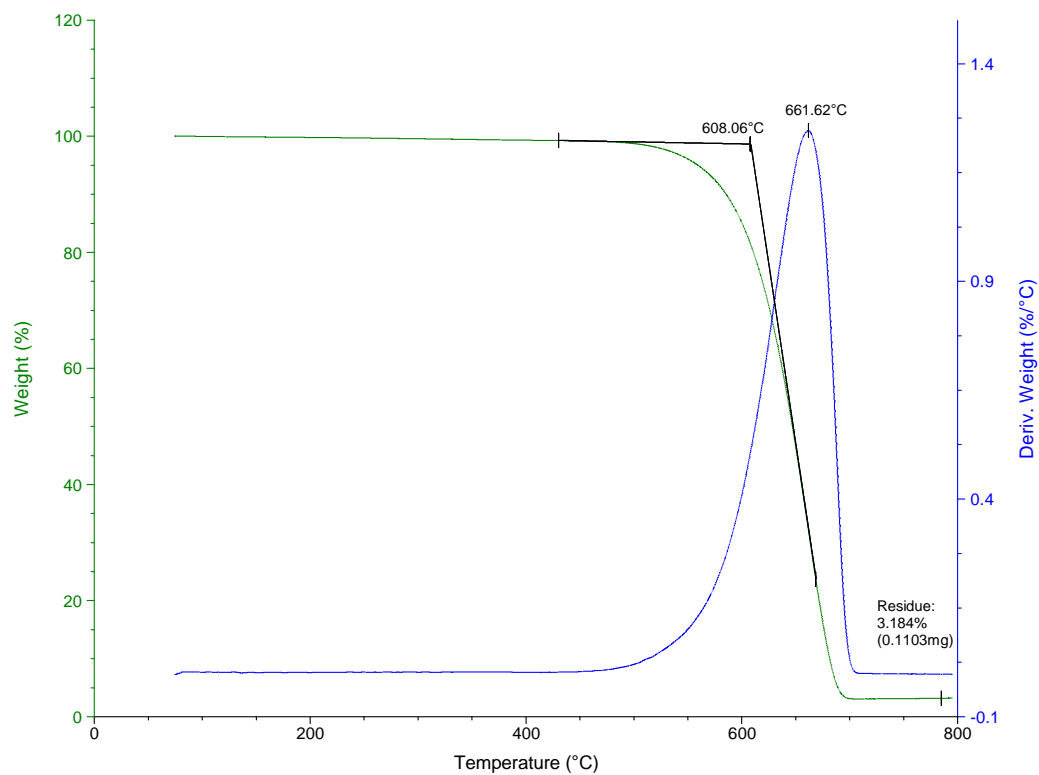


XRD (X 射线衍射)



Raman spectrum of IM8

(拉曼光谱)



TG (热重法)

## **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