

Technical data

Categories No: TNIM8

Name: Industrial Grade Multi-walled Carbon Nanotubes

Purity: >95%

OD: >50nm [OD=Outer Diameter]

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

Length: <10 μ m

SSA: > 60m²/g [SSA=Special Surface Area]

Color: Black

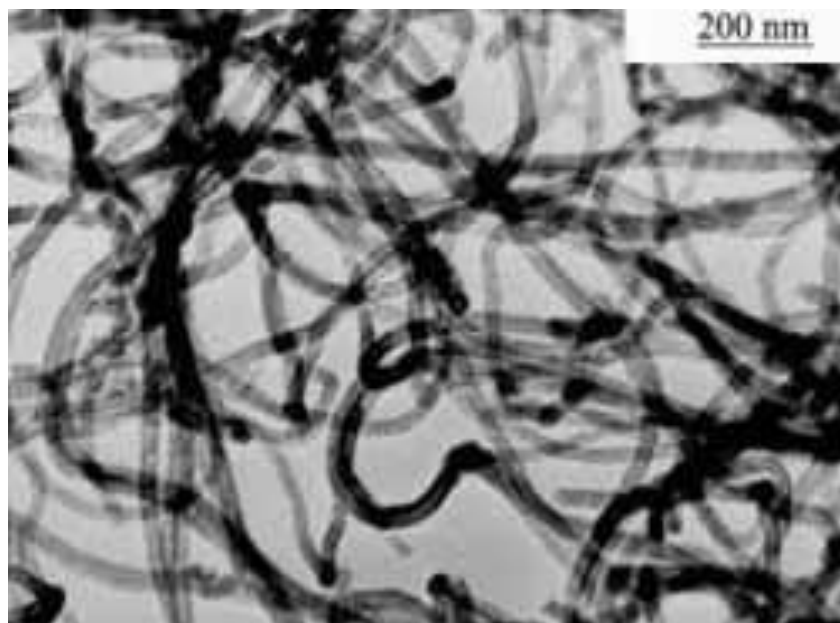
Tap density: 0.18 g/cm³

True density: ~2.1 g/cm³

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

Making method: CVD

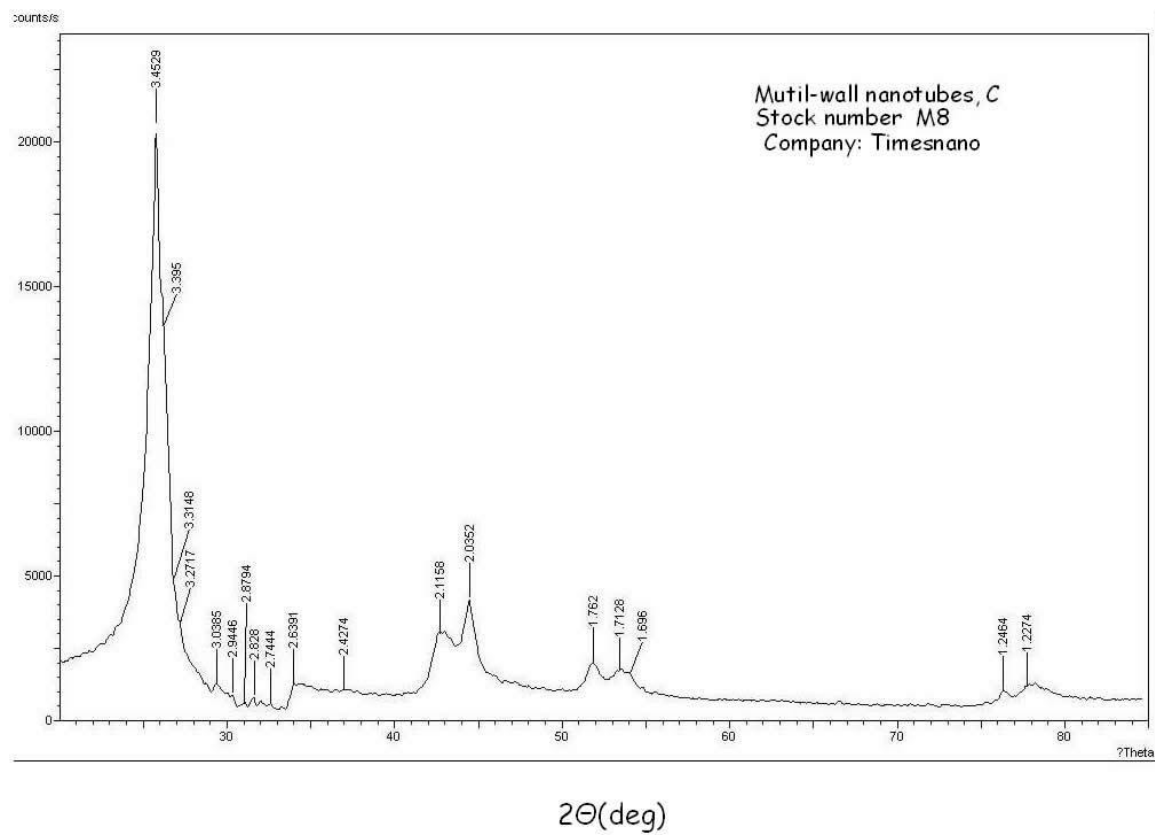
Testing paper



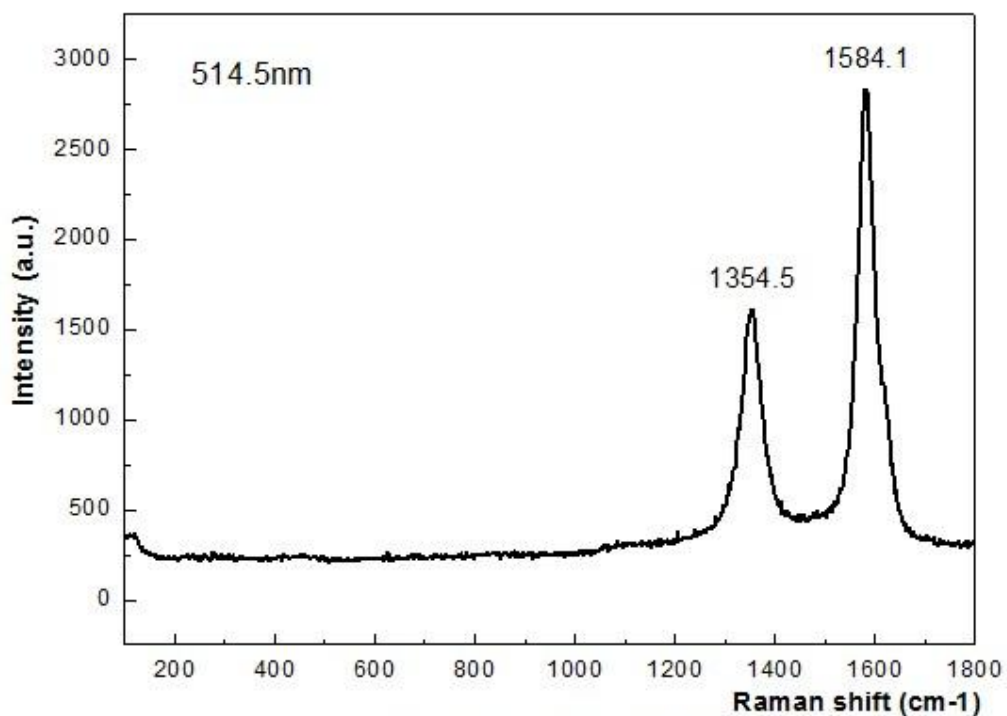
TEM (透射电子显微镜法)



(SEM) (扫描电子显微镜法)

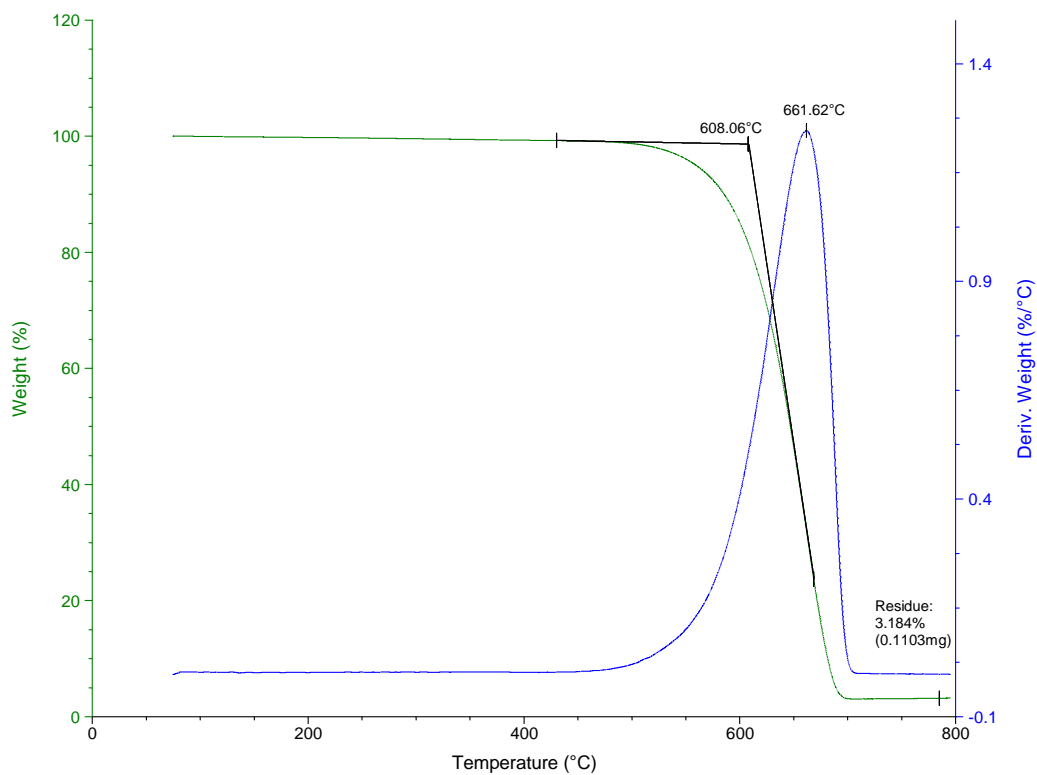


XRD (X 射线衍射)



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