

## Technical data

Categories No: TNSSC

Name: Short -COOH Functionalized Single-walled Carbon Nanotubes

(Short-SWCNTS-COOH)

Purity: >90%

-COOH Content: 2.73wt%

Diameter: 1-2nm

Length: 1-3um

SSA: >380m<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

## 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