Carbon Nanotube Single-Walled

- Their mechanical tensile strength can be 400 times that of steel
- They are very light-weight – their density is one sixth of that of steel
- Their thermal conductivity is better than that of diamond

Single Walled Carbon Nanotubes-SWCNT
Qty:
OD: 1-2nm, Avg Length: 8-15nm
High Purity: 90-95 wt% SWCNT
CAS: 308068-56-6 Lead Time 2-3 Weeks
N081130-06-605
BATCH No Aug-2019
PW1920/3486

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GOOD MANUFACTURING PRACTICE

Research is ongoing in the fields such as batteries, fuel cells, solar cells, advanced devices, optics, inks and coating fluids for highly transparent and conductive coatings for displays, photovoltaic devices, sensors, solid state lighting, Brakes, Electromagnetic shielding, Anti-electrostatic material, Sensor, Supercapacitors, Electrode, Fuel cell, Field emission display, Heat dissipation, Polymer composite engineering plastics, polymers, displays, anti corrosion paints, thin films and coatings, transparent and non-transparent conductive electrodes, super hydrophobic

Properties

- Highly Elastic
- Thermally conductive
- Great axial compressive forces
- Electrical Conductivity

- Strength and Elasticity
- Thermal Conductivity And Expansion
- Electron Emission
- Aspect Ratio

Technical Specification

Single Walled CNT

- Purity : >95% (SWNT)
- Catalyst : 2%
- Diameter : < 2nm
- Length : 3-8 micrometers

PEG Modified Single Walled CNT

- Purity : >95%
- PEG Modified : 1 – 2wt%
- Diameter- : <2nm
- Length : -20-30um

OH Surface Modified (SWCNT)

- Purity : >95%
- COOH Surface Modified : 3 – 5wt%
- Amorphous carbon : < 5%
- Residue (calcinations in air) : < 5%
- Diameter : <2nm
- Length : 15-30μm

Amine (NH2) Surface Modified (SWCNT)

- Purity : >95%
- Surface Modified : 1 – 2wt%
- Amorphous carbon : < 2%
- Residue (calcinations in air) : < 1%
- Diameter : <2nm
- Length : 8-15μm
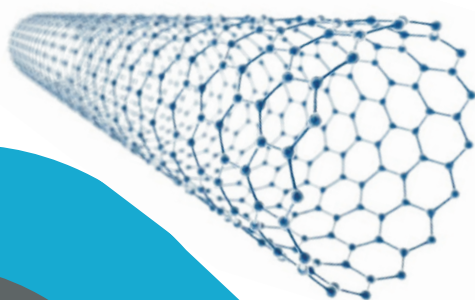
COOH Surface Modified (SWCNT)

- Purity : >95%
- COOH Surface Modified : 2 – 5wt%
- Avg. Diameter : <2nm
- Length : 3-8μm

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Applications

- Photovoltaic
- Sensors
- Semiconductor devices
- Displays
- Conductors
- Smart textiles
- Energy conversion devices

Appearance: Black fibrous powder

Single Walled Carbon Nanotubes COOH-SWCN
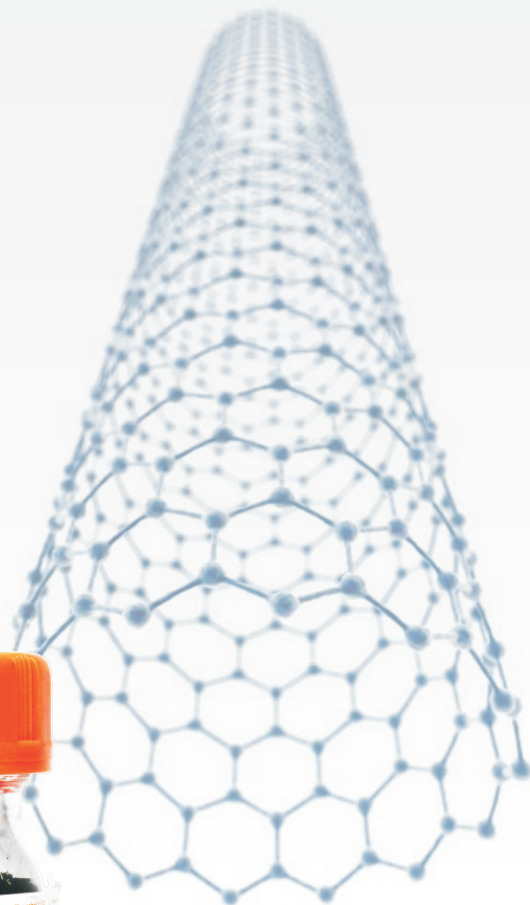
Packing Sizes Available:

2Gms, 5Gms, 10Gms, 25Gms & Bulk Orders

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