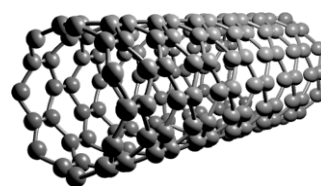


C Single Walled CARBON NANOTUBES



Single Walled CARBON NANOTUBES

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 coatings and anti-static packaging while active etc.

- ✓ 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

PROPERTIES

- ✓ Highly Elastic
- ✓ Thermally conductive
- ✓ Great axial compressive forces
- ✓ Electrical Conductivity
- ✓ Strength and Elasticity
- ✓ Thermal Conductivity And Expansion
- ✓ Electron Emission
- ✓ Aspect Ratio



Packing Sizes

Available: 25Gms, 50Gms, 100Gms,
500Gms & Bulk Orders



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TECHNICAL Specification

01 Single Walled CNT

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

02 PEG Modified SWCNT

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

03 COOH Surface Modified (SWCNT)

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

04 OH Surface Modified (SWCNT)

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



05 AMINE (NH₂) Surface Modified (SWCNT)

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

APPLICATIONS

- Additives in polymers
- 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

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