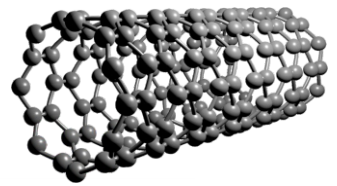


C Single Walled CARBON NANOTUBES



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20ZICE4589C

19ZAZG01274G

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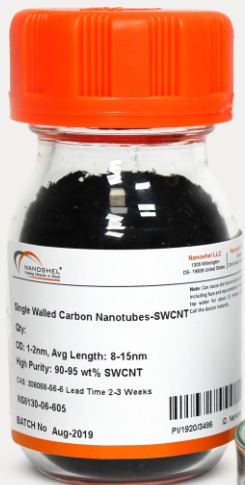
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Research is ongoing in the fields such as batteries, fuel cells, solar cells, advanced devices, optics, inks and coating fluids for highly transparent and conductive coatings for displays, photovoltaic devices, sensors, solid state lighting, Brakes, 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

APPEARANCE: Black fibrous powder



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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: 3-8µm





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

05 AMINE (NH₂) SURFACE Modified (SWCNT)
Purity: >95%
Surface Modified: 1 – 2wt%
Amorphous carbon :< 2%
Residue (calcinations in air) :< 1%
Diameter: <2nm
Length: 8-15µm

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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INTELLIGENT MATERIALS PVT LTD

Derabassi
Punjab (140507)
INDIA

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED

Chapel House,
Chapel St Cheshire,
CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

NANOSHEL LLC

3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States

+1 646 470 4911



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