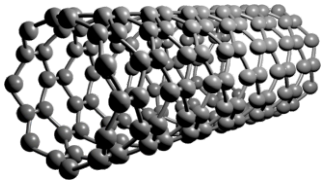
NANOSHEL
Creating Miracles in Black

# Multi Walled CARBON NANOTUBES

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# Multi Walled CARBON NANOTUBES


Research is ongoing in fields such as drug carriers, nanosensors and tissue engineering (batteries), energy storage, thermal material, electrical conductivity, biomedical, air and water filtration, conductive plastics, conductive adhesives, coatings for prosthetics, as well as anti-fouling coatings for ships, I/R Optics Industry, 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, Super capacitor, 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.

- ✓ They are very light-weight – their density is one sixth of that of steel
- ✓ Their thermal conductivity is better than that of diamond
- ✓ Ultra-high strength, low-weight materials that possess highly conductive electrical and thermal properties.


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

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# TECHNICAL Specification

## 01 Pristine MWCNT

Purity: >95% (SWCNT)

Residue (calcinations in air): 2%

Diameter: 10-20nm

Length: 3-8μm

## 02 Industrial Grade CNT

Purity: 95-99%

Amorphous carbon: 4-6%

Residue (calcinations in air): 2-3%

Diameter: 20-40nm

## 03 Surface Modification Carbon Nanotube-OH

Purity: >95%(MWCNT)

OH Surface Modified: 2 -4wt%

Diameter-10-20nm

Length-3-8μm

## 04 Amine Functionalized CNT

Purity: 95%

NH2 Content % : 2-3Wt%

Amorphous Carbon: < 3%

Residue (calcination in air): < 2%

Diameter: 20-30nm

Length: 15-30μm

## 05 COOH Functionalized (CNT)

Purity: 99.9wt%

COOH Surface Modified: 2 -4wt%

Diameter-10-20nm

Length-3-8μm

## 06 Amino Functionalized CNT

Purity: 95%

NH2 Surface Modified: 2 -3wt%

Amorphous Carbon: < 3%

Residue (calcination in air): < 2%

Diameter: 10-20nm

Length: 3-8 μm

# APPLICATIONS

- Conductive plastics
- Structural composite materials
- Flat-panel displays
- Gas storage
- CNTs thermal materials
- Molecular electronics based on CNTs
- Antifouling paint
- CNTs fibers and fabrics
- Micro- and nano-electronics
- CNTs Air & Water Filtration
- CNTs catalyst supports
- Ultra-capacitors
- Atomic Force Microscope (AFM) tips
- Batteries with improved lifetime
- Biosensors for harmful gases
- Targeting Drug Delivery
- Bioengineering applications such as energy storage and conversion devices, radiation sources, and hydrogen storage media

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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