

Multiwall

Carbon Nanotubes



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ISO: 13485:2016/20ZICE4588M
CE: 20ZICE4589C



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Multi Walled Carbon Nanotubes are hollow, cylindrically shaped allotropes of carbon that have a high aspect ratio (length to diameter ratio). Their name is derived from their structure and the walls are formed by multiple one-atom-thick sheets of carbon. MWNTs consist of multiple rolled layers of concentric nanotubes of graphene inside other nanotubes. Although MWCNTs are still classed as a 1-dimensional form of carbon, the unique properties that are seen within single-walled and double-walled carbon nanotubes are not as prominent. The reason for this is the higher probability of defects occurring. These disadvantages are offset by the increased dispersability of MWCNTs, and the reduced cost in synthesis and purification of these materials. Multiwall Carbon Nanotubes are suitable for use in many special applications such as Electrically

Conductive Polymers— in particular as a result of their high conductivity and high aspect ratio. The required conductivity level can be achieved with much lesser loadings than for conventional solutions such as metal particulates or carbon black. Applications include electrostatic discharge protection in wafer processing fabrication, antistatic elastomeric and plastic components for automobile fuel line components, plastics rendered conductive to enable electrostatic spray painting of automobile body parts, RFI shielding materials, and more. Other applications of multiwall carbon nanotubes include the following: as a waterfiltration membranes- due to high aspect ratio, high mechanical strength and large specific surface enable very efficient filtration media, as abattery cathodes. Moreover multiwall carbon nanotubes provide greater strength which is further used in field of composite materials.

Quick facts

Product : Multiwalled Carbon Nanotubes

Stock No : NS6130-06-647

CAS : 308068-56-6

Color : Black

Form : Powder

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Additional Powder Characteristics

Stock No.	Purity	APS
NS6130-06-647	95%	Diameter – 20-30nm Length-15-30um

Specification Technical

Molecular Formula	Molecular Weight	Density	Melting Point	Boiling Point
C	12.01g/mol	N/A	3550 °C	4027 °C

Chemical Composition

Product	Weight Percent (nominal)	
	MWCNT	Other Metal
Multiwalled Carbon Nanotubes	95%	—

Applications



- ✓ Energy storage
- ✓ Electrically Conductive Polymers
- ✓ Battery Cathodes
- ✓ Improved Structural Composites
- ✓ Sensors
- ✓ Water filtration membrane

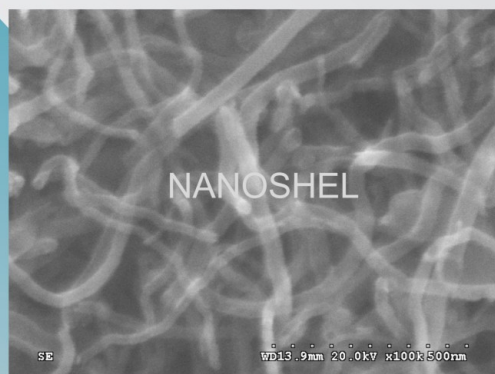


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Ordering Information and Stock Availability

- ✓ Product: Multiwalled Carbon Nanotubes
- ✓ Stock Availability: Available
- ✓ Distribution: Global
- ✓ Packing Sizes: 10Gms, 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders



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Handling Recommendations

- ✓ Store in the original container in a dry location.
- ✓ Tumble contents prior to use to prevent segregation.
- ✓ Open containers should be stored in a drying oven to prevent moisture pickup.

Safety Recommendations

Download MSDS/SDS NS6130-06-647

are available from the Nanoshel Website at

<https://www.nanoshel.com/product/multi-wall-carbon-nanotubes>

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