Thin Multiwall Carbon Nanotubes
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 dispersibility 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: NS6130-06-686
CAS: 308068-56-6
Color: Black
Form: Powder
Thin Multiwall Carbon Nanotubes

Additional Powder Characteristics

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-06-686</td>
<td>&gt;99%</td>
<td>Diameter-20-30nm Length-30-40um</td>
</tr>
</tbody>
</table>

 Specification Technical

<table>
<thead>
<tr>
<th>Molecular Formula</th>
<th>Molecular Weight</th>
<th>Density</th>
<th>Melting Point</th>
<th>Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>12.01g/mol</td>
<td>N/A</td>
<td>3550 °C</td>
<td>4027 °C</td>
</tr>
</tbody>
</table>

 Chemical Composition

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiwalled Carbon Nanotubes</td>
<td>&gt;99%</td>
</tr>
</tbody>
</table>

 Applications

- Energy storage
- Improved Structural Composites
- Electrically Conductive Polymers
- Sensors
- Battery Cathodes
- Water filtration membrane
Thin Multiwall Carbon Nanotubes

Ordering Information and Stock Availability

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

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 NS6130-06-686 are available from the Nanoshel Website at https://www.nanoshel.com/product/thin-mwcnt

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