Carbom Nanotube

WASTE WATER TREATMENT
Carbon Nanotube

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CNTs consist of carbon atoms that are structured in layers of graphene rolled into seamless cylinders. Each carbon atom of graphene is symmetrically bound to three other carbon atoms, one atom thick, which in turn form hexagonal rings. CNTs can be classified into two main groups: single-walled and multi-walled. A carbon nanotube that consists of only one layer of graphene is usually called a single-walled carbon nanotube (SWCNTs). The multi-walled carbon nanotubes (MWCNTs) consist of several layers of graphene shaped into concentric cylinders. CNTs have attracted enormous research attention in various scientific communities. Owing to their tunable physical, chemical, electrical, and structural properties, CNTs can inspire innovative technologies to address the water short-age and water pollution problems. Carbon nanotube based nanotechnologies have found water-treatment applications in many fields, such as sorbents, catalyst, filters, or membranes. 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 water filtration membranes due to high aspect ratio, high mechanical strength and large specific surface enable very efficient filtration media, as battery cathodes. Moreover multiwall carbon nanotubes provide greater strength which is further used in field of composite materials.

Quick facts

<table>
<thead>
<tr>
<th>Product</th>
<th>CNT Waste Water Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock No</td>
<td>NS6130-06-645</td>
</tr>
<tr>
<td>CAS</td>
<td>308068-56-6</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Form</td>
<td>Powder</td>
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</tbody>
</table>
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Additional Powder Characteristics

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
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<tbody>
<tr>
<td>NS6130-06-645</td>
<td>&gt;80%</td>
<td>Diameter-15-25nm Length- 5-15um</td>
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</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>
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</thead>
<tbody>
<tr>
<td>C</td>
<td>12.01g/mol</td>
<td>N/A</td>
<td>3550 °C</td>
<td>4027 °C</td>
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</tbody>
</table>

Chemical Composition

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Nanotubes Waste Water Treatment</td>
<td>&gt;95%</td>
</tr>
</tbody>
</table>

Applications

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

www.nanoshel.com | sales@nanoshel.com
Tel: +91 9779550077,9779238252
Ordering Information and Stock Availability

✓ Product: CNT Waste Water Treatment
✓ 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 NS6130-06-645 are available from the Nanoshel Website at https://www.nanoshel.com/product/carbon-nanotubes-wastewater-treatment

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