TECHNICAL DATA SHEET

Technical Data Sheet: OH Functionalized Single Walled-Double Walled Carbon Nanotubes

Product code: 0102

Revision 2026-11

Description

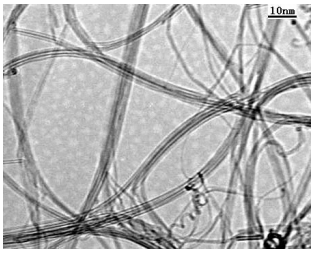
Single walled and double walled carbon nanotubes (SWCNT/DWCNT) in grades defined by overall carbon nanotube purity, supplied as a dry powder. Small diameters and long lengths give a high aspect ratio and high specific surface area.

Specifications

Property	Value
Outer diameter	1-2nm
Inner diameter	0.8-1.6nm
Length	5-30um
Specific surface area	407 m2/g
Purity	>90 wt%
Ash	<1.5 wt%
Functional group content	3.9 wt% OH groups
Additional MWCNT content	<5 wt%
Amorphous carbon content	<3 wt%
Electrical conductivity	>100 S/cm
Bulk density	0.14 g/cm3
True density	~2.1 g/cm3

Characterization

Representative image of this grade is shown below. A representative Certificate of Analysis is available.



Representative image

Applications

Our SW/DW grades are used as conductive additives in transparent conductive films, coatings, polymers and battery electrodes, and in sensor and electronics research.

Storage and Handling

Store sealed, dry, at room temperature. Use respiratory protection when handling dry powder; see SDS.

Documentation

Representative data provided. A representative Certificate of Analysis is available. Safety Data Sheet at cheaptubes.com/nanomaterial-msds-safety-sheets.

Application results depend on formulation, equipment and process conditions; confirm with your own trials. Specifications reflect the product page at cheaptubes.com as of November 2026.