TECHNICAL DATA SHEET

Technical Data Sheet: Multi Walled Carbon Nanotubes 50nm

Product code: 030107

Revision 2026-11

Description

Multi walled carbon nanotubes (MWCNT) in our standard grade series, supplied as a dry black powder in a range of outer diameters. We offer these grades as a general purpose carbon nanotube additive with high aspect ratio and good electrical conductivity.

Specifications

Property	Value
Outer diameter	50-80nm
Inner diameter	5-10nm
Length	10-20um
Specific surface area	60 m2/g
Purity	>98 wt%
Ash	<1.5 wt%
Electrical conductivity	>100 S/cm
Bulk density	0.18 g/cm3
True density	~2.1 g/cm3

Characterization

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



TEM, representative

Applications

Our standard MWCNT grades are used as conductive and reinforcing additives in polymers, coatings, adhesives, rubber and battery electrodes. Choose the outer diameter to balance dispersibility, conductivity and surface area for your formulation.

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.