TECHNICAL DATA SHEET

Technical Data Sheet: Short OH Functionalized Multi Walled Carbon Nanotubes 50nm

Product code: 03040207

Revision 2026-11

Description

Short multi walled carbon nanotubes (MWCNT) with a reduced length compared with our standard grades, available non-functionalized or functionalized with OH or COOH groups by acid treatment. We supply these grades as a dry powder. This grade is OH functionalized by acid treatment.

Specifications

Property	Value
Outer diameter	50-80nm
Inner diameter	5-10nm
Length	0.5-2.0um
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 short MWCNT are suited to applications where lower viscosity, easier dispersion and finer features matter, such as thin coatings, inks, films and polymer composites.

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.