TECHNICAL DATA SHEET

Technical Data Sheet: COOH Functionalized Multi Walled Carbon Nanotubes 10-20nm

Product code: 030303

Revision 2026-11

Description

High purity multi walled carbon nanotubes (MWCNT) with an outer diameter of 10-20nm, available non-functionalized or functionalized by acid treatment. We supply these grades as a dry powder at a purity of 99 wt% or higher. This grade is COOH functionalized by acid treatment.

Specifications

Property	Value
Outer diameter	10-20nm
Inner diameter	3-5nm
Length	10-30um
Specific surface area	233 m2/g
Purity	>98 wt%
Ash	<1.5 wt%
Functional group content	1.8 wt% COOH groups
Electrical conductivity	>100 S/cm
Bulk density	0.22 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 99 wt% purity MWCNT are suited to applications that are sensitive to metal catalyst residue, including battery electrodes, sensors, electronics and research use.

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.