TECHNICAL DATA SHEET

Technical Data Sheet: COOH Functionalized Graphitized Multi Walled Carbon Nanotubes 50nm

Product code: 050307

Revision 2026-11

Description

Graphitized multi walled carbon nanotubes (MWCNT) produced by CCVD and then heat treated to graphitize the walls, available non-functionalized or functionalized with OH or COOH groups by acid treatment. We supply these grades as a dry powder with very low ash and high electrical conductivity, at the cost of lower specific surface area than non-graphitized MWCNT of similar size. This grade is COOH functionalized by acid treatment.

Specifications

Property	Value
Outer diameter	50-80nm
Inner diameter	5-10nm
Length	10-20um
Specific surface area	20 m2/g
Purity	>99.9 wt%
Ash	<0.1 wt%
Electrical conductivity	>100 S/cm
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 graphitized MWCNT are suited to applications where overall conductivity and purity matter more than the highest specific surface area, such as conductive polymers, thermal interface materials and battery conductive additives.

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.