TECHNICAL DATA SHEET

Technical Data Sheet: OH Functionalized Multi Walled Carbon Nanotubes 20-30nm

Product code: 030204

Revision 2026-11

Description

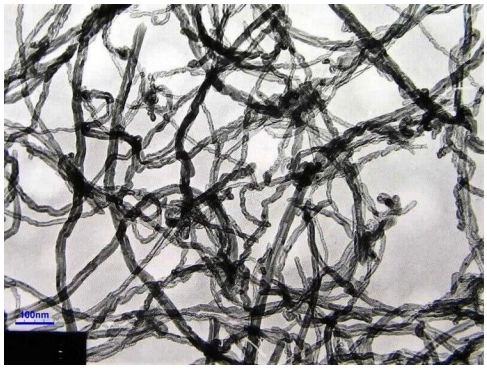
Multi walled carbon nanotubes (MWCNT) functionalized with hydroxyl (OH) groups by acid treatment. We supply these grades as a dry powder, with the OH groups improving wetting and dispersion compared with non-functionalized nanotubes.

Specifications

Property	Value
Outer diameter	20-30nm
Inner diameter	5-10nm
Length	10-30um
Specific surface area	110 m2/g
Purity	>98 wt%
Ash	<1.5 wt%
Functional group content	1.6 wt% OH groups
Electrical conductivity	>100 S/cm
Bulk density	0.28 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 OH functionalized MWCNT are suited to water-borne and polar systems, epoxy and polyurethane composites, and coatings where improved dispersion and reactive surface sites are needed.

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.