TECHNICAL DATA SHEET

Technical Data Sheet: High Purity Multi Walled Carbon Nanotubes 3-8nm, 99.5%

Product code: 030118

Revision 2026-11

Description

Thin-walled, small-diameter multi walled carbon nanotubes (MWCNT) produced by CCVD, with very high specific surface area and low residual catalyst content. This is the MWCNT closest in performance to single-wall tubes, at a fraction of the price.

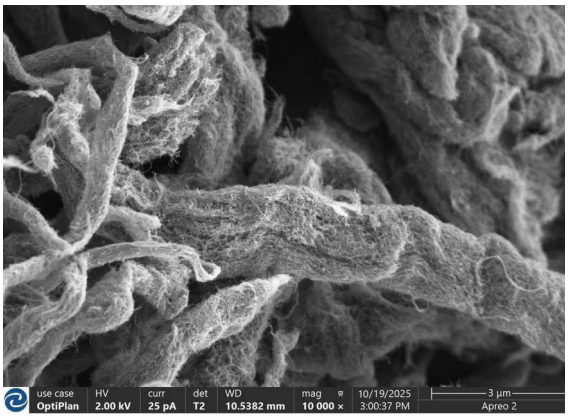
Specifications

Property	Specification	Typical
Outer diameter	3-8nm	5.3nm (SEM)
Length	≤50um	15-30um
Purity	≥99 wt%	99.5 wt% (TGA)
Specific surface area (BET)	500-700 m2/g	615 m2/g
Tap density	0.02-0.08 g/cm3	0.05 g/cm3
Moisture	≤0.5 wt%	-
Fe	≤300 ppm	260 ppm
Cr	≤10 ppm	-
Ni	≤20 ppm	-
Cu	≤10 ppm	-
Zn	≤10 ppm	-
Co	≤500 ppm	340 ppm

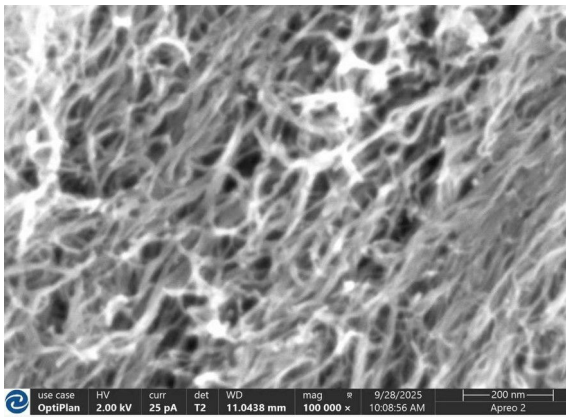
Values shown are specification limits; typical values are representative of production material. Outer diameter and length by SEM; purity by TGA; specific surface area by nitrogen adsorption (BET); metals by ICP-AES.

Characterization

Representative SEM images of this grade are shown below. A representative Certificate of Analysis is available.



SEM, 10,000x, scale bar 3um, representative



SEM, 100,000x, scale bar 200nm, representative

Applications

Suited to conductive additives for battery electrodes (cathode and anode), conductive polymers and coatings, EMI shielding, supercapacitors, catalyst supports, and research requiring high-surface-area MWCNT.

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.