TECHNICAL DATA SHEET

Technical Data Sheet: COOH Functionalized Single Walled Carbon Nanotubes 98 wt%

Product code: 0113

Revision 2026-11

Description

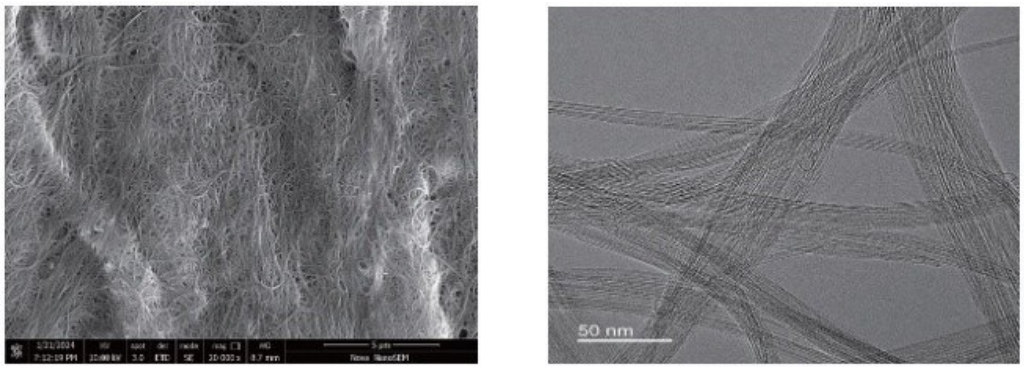
High purity single walled carbon nanotubes (SWCNT) in our CTI series, supplied as a dry powder with 1-2nm outer diameter and low metal content. A high aspect ratio and specific surface area make them effective at low loading. This grade is COOH functionalized by acid treatment.

Specifications

Property	Value
Outer diameter	1-2nm
Length	>100um
Specific surface area	>800 m2/g
Purity	98 wt%
Functional group content	Carboxyl (COOH)

Characterization

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



SEM (left) and TEM (right), representative

Applications

Our high purity SWCNT are suited to conductive additives for battery electrodes, coatings, polymers and composites, and to transparent conductive films and sensors.

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.