TECHNICAL DATA SHEET

Technical Data Sheet: Single Walled Carbon Nanotubes 95

Product code: 0106

Revision 2026-11

Description

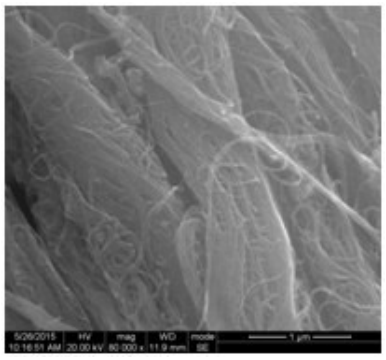
High purity single walled carbon nanotubes (SWCNT) in our CTI series, supplied as a dry powder with 1-2nm outer diameter and low metal content. A high aspect ratio and specific surface area make them effective at low loading.

Specifications

Property	Value
Outer diameter	1-4nm
Inner diameter	0.8-1.6nm
Length	5-30um
Specific surface area	690 m2/g
Purity	>95 wt%
Ash	<1.5 wt%
Additional MWCNT content	<5 wt%
Amorphous carbon content	1 wt%
Electrical conductivity	>100 S/cm
Tap density	0.27 g/cm3
True density	~2.1 g/cm3

Characterization

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



SEM, 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.