

Specification Sheet

Carboxyl Nanoparticles

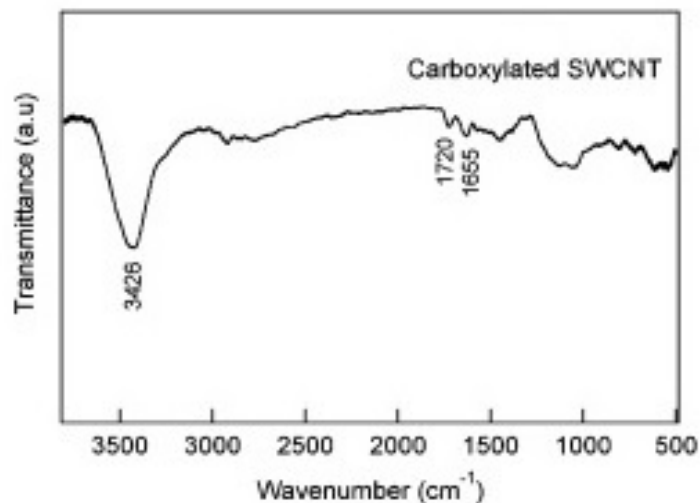
(SWCNT COOH >98wt% OD:1-2nm Length:3-8 μ m)

Stock No: NS6130-06-621, CAS: 308068-56-6

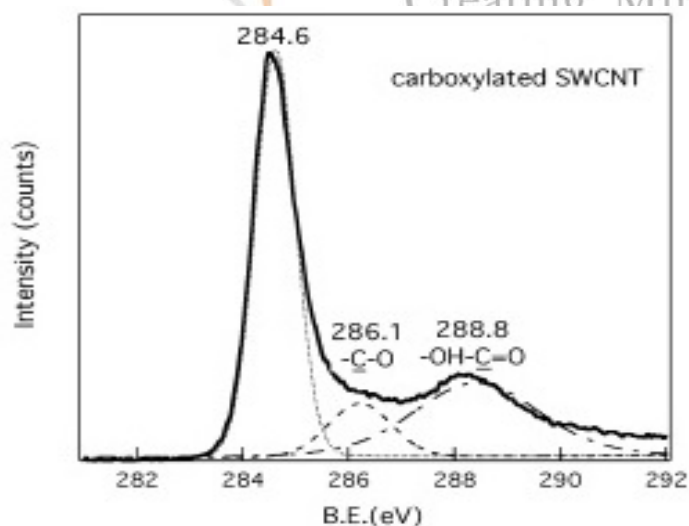
Product	:	Single Walled Carbon Nanotubes (Carboxyl Nanoparticles)
Stock No	:	NS6130-06-621
CAS No	:	308068-56-6
Category	:	SC-SL-3
Avg. Diameter	:	1-2nm
Length	:	3-8 μ m
Purity	:	>80% (SWCNT COOH)
Amorphous carbon	:	< 5%
Residue (calcination in air)	:	< 5%
COOH Surface Modified	:	2 - 5wt%
Special Surface Area	:	350-450* m ² /g
Bulk density	:	0.05-0.17 g/cm ³
Real density	:	2-3 g/cm ³
Charging *	:	2180 (Capacity: mA h/g)
Discharging*	:	534 (Capacity: mA h/g)
Volume Resistivity	:	0.1-0.15 Ω .cm (measured at pressure in powder)
Main Inspect Verifier	:	Manager QC

Note: Product Specification are subject to amendment and may change over time

Characterization of Carboxyl Nanoparticles



FTIR Spectra of Carboxylated SWCNT



XPS Spectra of Carboxylated SWCNT