

## Specification Sheet

### Amino Functional Group

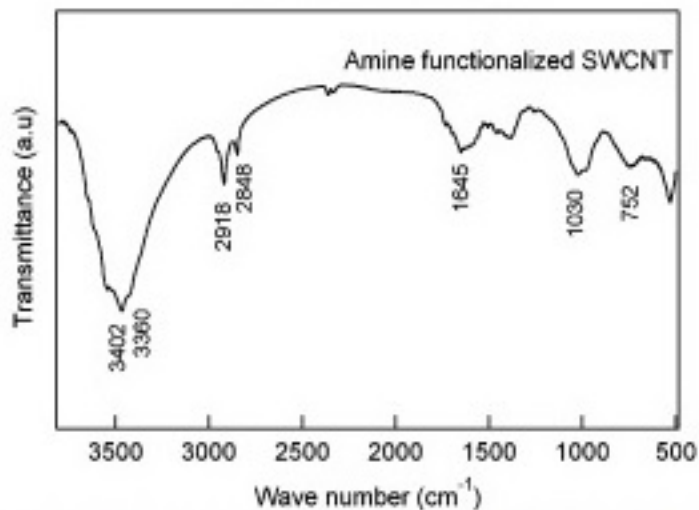
(SWCNT 80-90wt% OD:1-2nm Length:3-8 $\mu$ m)

Stock No: NS6130-06-630, CAS: 308068-56-6

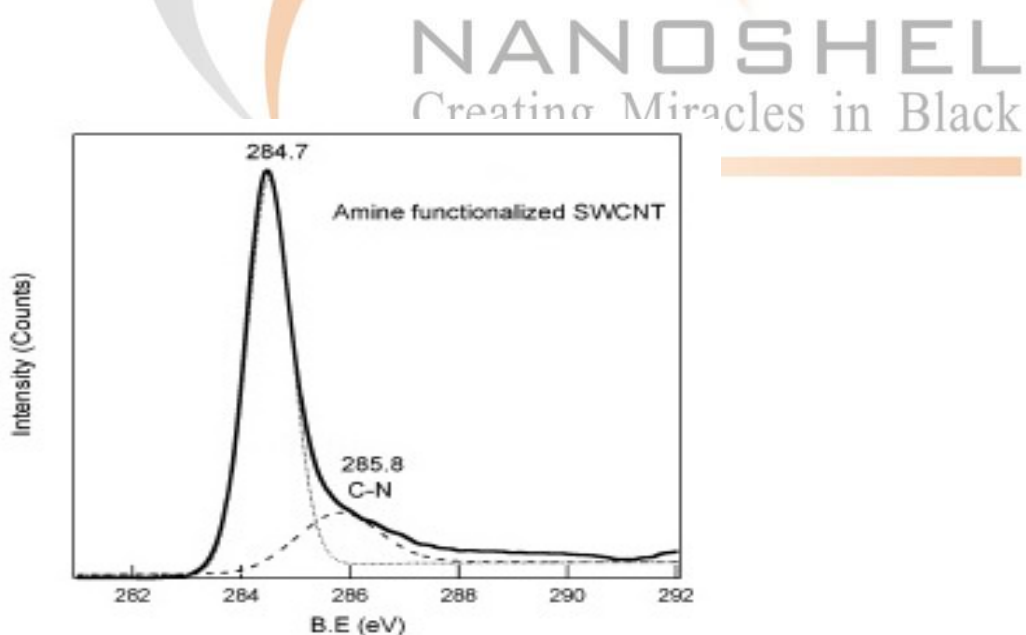
<b>Product</b>	:	<b>SWCNT (Amino Functional Group)</b>
Stock No	:	NS6130-06-630
CAS No	:	308068-56-6
Category	:	SA-SL-3
Avg. Diameter	:	1-2nm
Length	:	3-8 $\mu$ m
Purity	:	>80% (SWCNT)
Amorphous carbon	:	>3%
Residue ( calcination in air)	:	< 2%
Amine (NH <sub>2</sub> ) Surface Modified	:	1 - 2wt%
Special Surface Area	:	350-450* m <sup>2</sup> /g
Bulk density	:	0.05-0.17 g/cm <sup>3</sup>
Real density	:	2-3 g/cm <sup>3</sup>
Charging *	:	2180 (Capacity: mA h/g)
Discharging*	:	534 (Capacity: mA h/g)
Volume Resistivity	:	0.1-0.15 $\Omega$ .cm ( measured at pressure in powder)
<b>Main Inspect Verifier</b>	:	<b>Manager QC</b>

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

## Characterization of Amino Functional Group



## FTIR Spectra of Amino Functional Group



## XPS Spectra of Amino Functional Group