

## Specification Sheet

### COOH Functionalized CNT

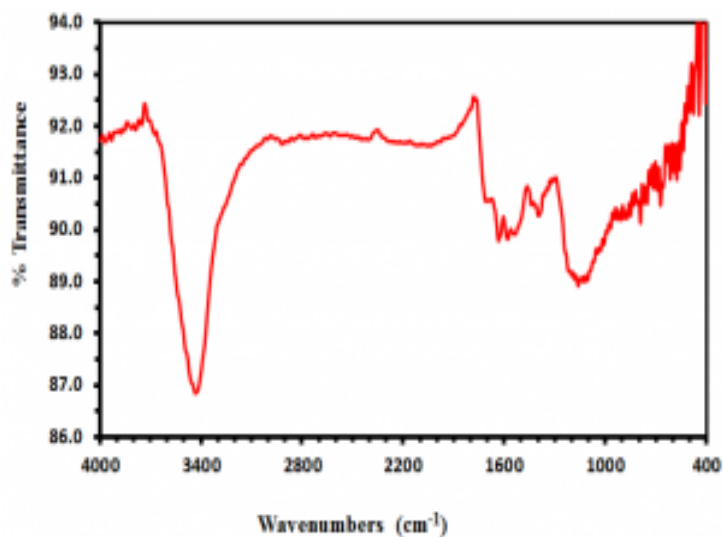
(Carbon Nanotubes, OD: 10-20nm, Length: 3-8 $\mu$ m)

Stock No: NS6130-06-659, CAS: 308068-56-6

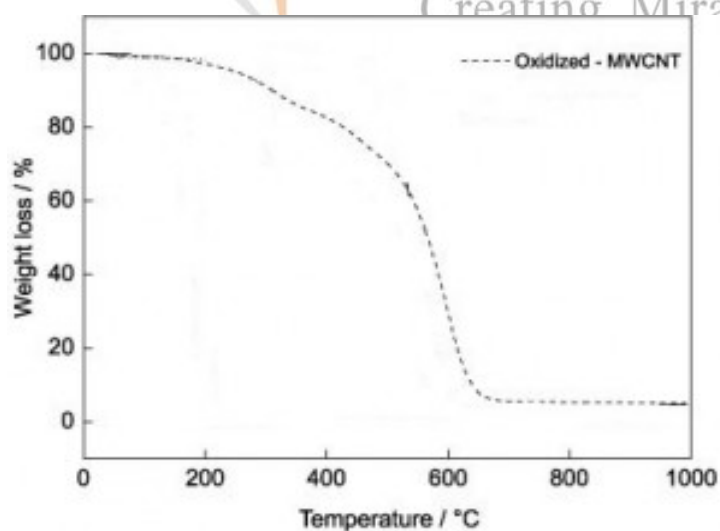
<b>Product</b>	:	<b>COOH Functionalized CNT</b>
Stock No	:	NS6130-06-659
CAS	:	308068-56-6
Diameter	:	10-20nm
Length	:	3-8 $\mu$ m
Purity	:	99.9wt% (MWNT) (TGA)
Residue (calcination in air)	:	< 0.1%
COOH Content %	:	2-4Wt%
Average interlayer distance	:	0.34nm
Special Surface Area	:	100-110* m <sup>2</sup> /g
Bulk density	:	0.05-0.17 g/cm <sup>3</sup>
Real density	:	4.00 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)
Available Quantities	:	10Gms, 25Gms, 50Gms, 100Gms and larger quantities
<b>Main Inspect Verifier</b>	:	<b>Manager QC</b>

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

## Characterization of COOH Functionalized CNT



## FTIR Spectra of COOH Functionalized CNT



## XPS COOH Functionalized CNT