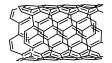
Specification Sheet



Carbon Solutions, Inc. 1200 Columbia Ave Riverside, CA 92507 Tel: +1(951) 682-5620 Fax: +1(951) 682-5627 sales@carbonsolution.com

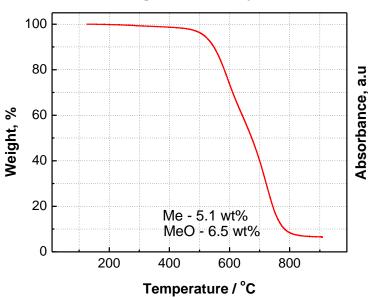
ip-SWNT

Product Description: Industrial grade SWNTs; purified by air oxidation and subsequently treated to remove the catalyst.

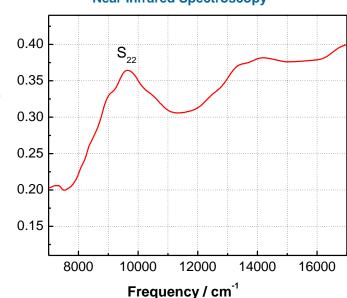


Carbonaceous Purity*: > 90%Metal Content **: > 5%Average Diameter of Individual SWNT: 1.55 ± 0.1 nm
Dispersibility***: 0.1 mg/mL in DMF

Thermogravimetric Analysis



Near Infrared Spectroscopy



Performed in air at a heating rate of 5°C/min

Spectrum of ip-SWNT dispersion in DMF.

Areas of applications:

- Separation of metallic and semiconducting SWNTs
- Batteries
- Electronic skin
- Nanoelectronics
- Photonics
- Sensors
- · Electromagnetic shielding

^{*} Determined according to procedure described in *Nano Lett.* **2003**, *3*, 309-314; and NIST Recommended Practice Guide "Measurement Issues in Single Wall Carbon Nanotubes": http://www.nist.gov/customcf/get_pdf.cfm?pub_id=852726

^{**} Weight % estimated from the residual of the thermal gravimetric analysis (TGA) in air at 900°C, corrected for metal oxide.

^{***} From solution phase NIR spectroscopy