

# Specification Sheet

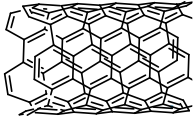


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## ip<sup>CX</sup>-SWNT

**Product Description:** Industrial grade, purified SWNTs with 1-3 atomic % carboxylic acid groups



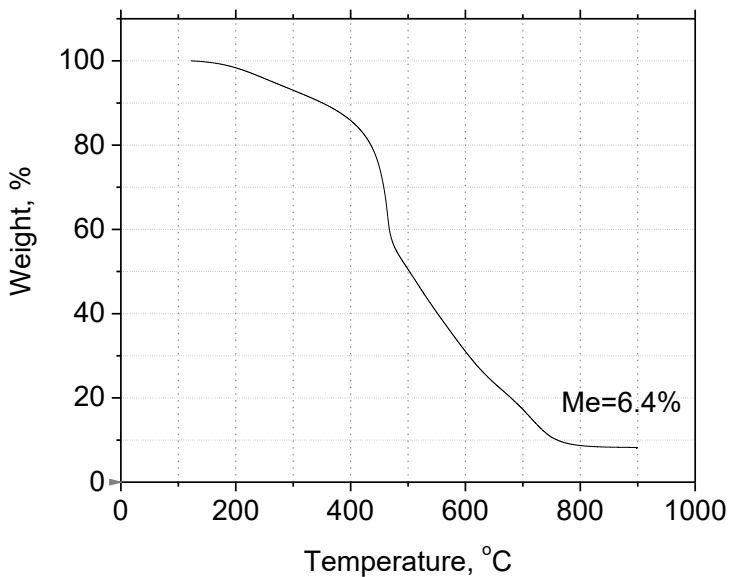
<b>Carbonaceous Purity*:</b>	> 90%
<b>Metal Content **::</b>	> 5%
<b>Typical Diameter of Individual SWNT:</b>	1.55 ± 0.1 nm
<b>Dispersibility***:</b>	1.0 mg/mL in DMF

\* 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](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.

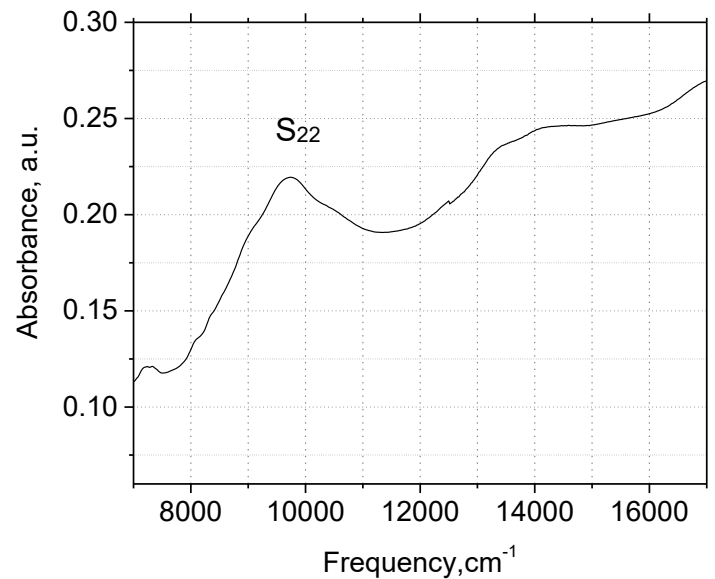
\*\*\* From solution phase NIR spectroscopy

### Thermogravimetric Analysis



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

### Near Infrared Spectroscopy



Spectrum of ip<sup>CX</sup>-SWNT dispersion in DMF.

### Areas of applications:

- Thin film transparent conducting coating
- Electronic skin
- Nanoelectronics
- Photonics
- Sensors
- Biomedicine
- Inkjet printing