Specification Sheet

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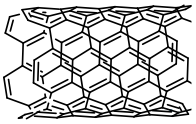
i-SWNT

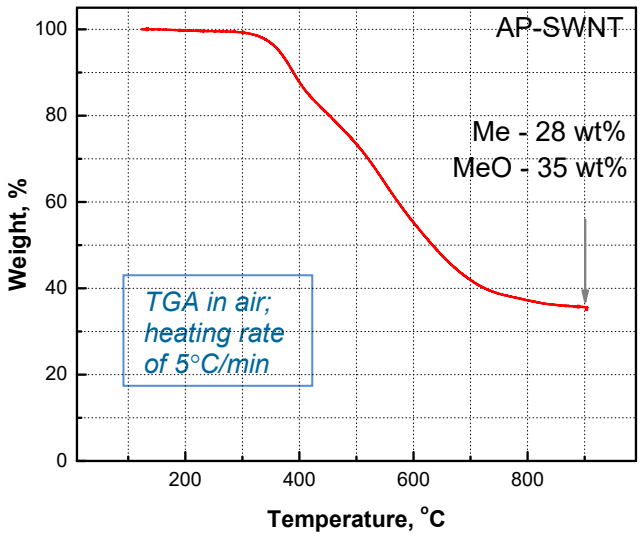
Product Description: Industrial grade SWNTs synthesized by electric arc discharge method using Ni/Y as catalyst.



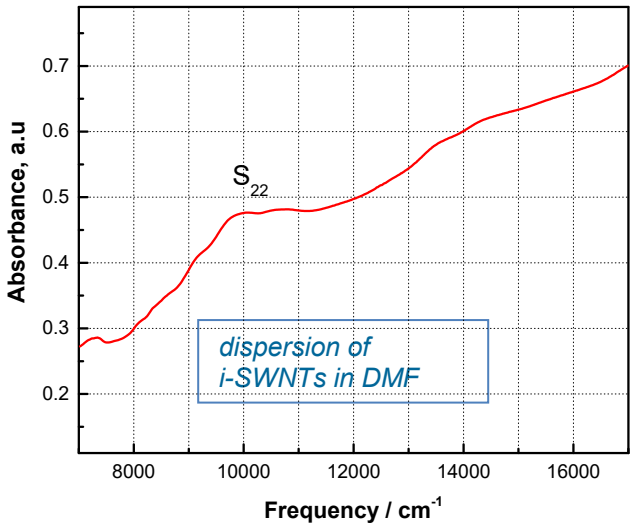
Carbonaceous Purity*:	*> 45%*
Metal Content **:	*< 30%*
Average Diameter of Individual SWNT:	*1.55 ± 0.1 nm*
Dispersibility*:**	*0.1 mg/mL in DMF*

* 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**
** 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



Near Infrared Spectroscopy



Areas of applications:

- Thin film transparent conducting coating
- Purification of carbon nanotubes
- Separation of metallic and semiconducting SWNTs
- Nanostructured composites
- Nanoelectronics and Photonics
- Sensors
- Electromagnetic shielding