



Institute for Environmental Nanotechnology

Carbon Nanotubes is produced by the propitiatory CVD method. This product is suitable as reinforcement filler in base polymers for the fabrication Nano-composites/bio-Nano-composite.

Advantages of MWNT:-

- *Produces light weight strong materials*
- *Improves thermal and electrical properties*
- *Easy to inter mix in base matrices*
- *Industrial economic*

MWNT	Description	Characterization method
Production method	Chemical Vapor Deposition [SLV]	Proprietary Method
Available form	Black powder	Visual
Diameter	Outer Diameter: 60-80 nm	TEM, SEM
Length	5 micron	SEM, TEM
Nanotubes purity	>95%	TGA, RAMAN
Metal particles	<4%	TGA
Amorphous carbon	<1%	TGA, XRD
Specific Surface area	330 m ² /g	BET
Bulk density	0.04-0.06 g/cm ³	Pycnometer

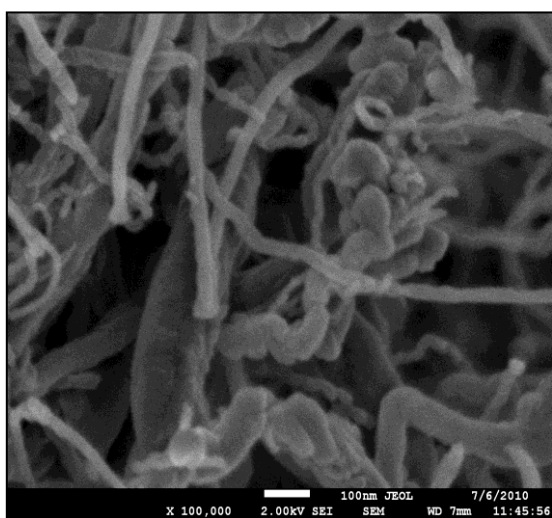


Fig 1. SEM Image of MWNT

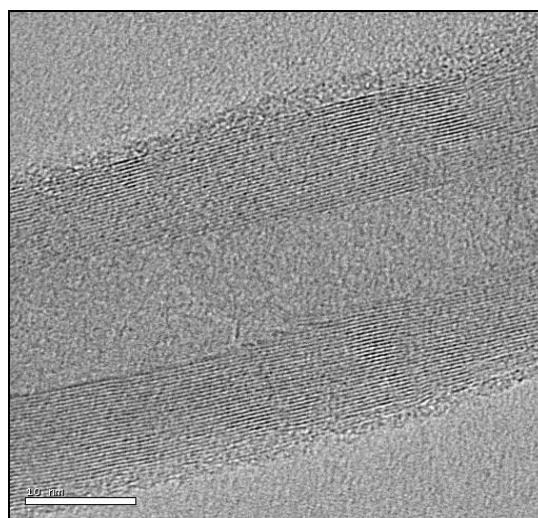
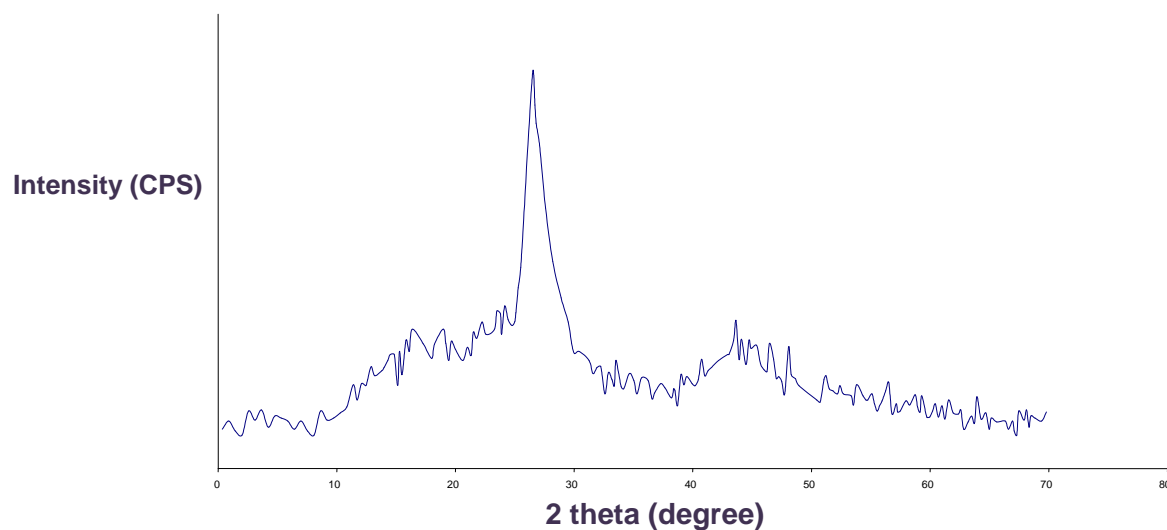


Fig 2. TEM Image of MWNT



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