



**Ref: NC9000DS - 30 May 2006**

## **Nanocyl® 9000 series Datasheet**

### **High-Density Polyethylene Nanocomposite Powder**

Nanocyl®-9000 series is a unique additive that contains very high-loading of carbon nanotubes already pre-dispersed in a polymer carrier using a proprietary technology.

A primary use is as a concentrate for easier handling and superior dispersion of carbon nanotube in thermoplastic polymers. Typical applications are ESD and conductive plastics with superior mechanical properties. Recommended method of addition is melt-blending using standard equipment.

Nanocyl®-9000 is compatible with polyolefin and engineering thermoplastics (PC, PA66). Typical loading levels start from 2%. Optimal loading depends on the performance requirements of the final application.

Nanocyl®-9000 is available in powder form (100 grams, 500 grams or 1 kg) in concentration of 35% of MWNT. For commercial quantities and technical data, contact us directly.

<b>Characterization Nanocyl®-9000</b>			
<b>Property</b>	<b>Unit</b>	<b>Value</b>	<b>Method of Measurement</b>
Polymer content	%	Max. 42	TGA
Multi-wall carbon nanotube content	%	Max. 45	TGA
Catalyst residue	%	Max. 10	TGA
Volatile compound (oligomer)	%	Min. 3	TGA
Melting temperature	°C	130	DSC

*Further information is available upon request*