

# GRAPHISTRENGTH<sup>™</sup> 100 P50

## MULTI-WALL CARBON NANOTUBE PRE-COMPOSITE

### DATA SHEET FOR PRODUCT DEVELOPMENT

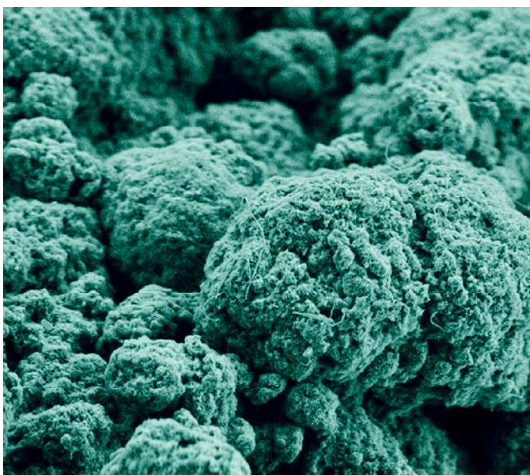
#### Typical properties:

<b>Description</b>	Multi-wall carbon nanotube (MWNT) pre-composite	
<b>Appearance</b>	Black powder	
<b>Composition</b>	MWNT	50 ± 2 Wt %
	Polyacrylate	50 ± 2 Wt %
<b>Powder characteristics</b>	Apparent density	200 – 400 kg/m <sup>3</sup>
	Mean agglomerate size	200 – 500 µm
<b>MWNT characteristics</b>	C content	> 90 wt%
	Free amorphous carbon	Not detectable (SEM/TEM)
	Mean number of walls	5 – 15
	Outer mean diameter	10 – 15 nm
	Length	0.1 – 10 µm

#### Applications:

The technology used to obtain Graphistrength<sup>™</sup> 100 P50 makes it extremely easy to handle and dose, and ensure a thorough dispersion of MWNTs during application. Optimum use can therefore be made of MWNT properties within the **highly polar media and materials**. In particular, Graphistrength<sup>™</sup> 100 P50 provides stable dispersions in water.

When properly dispersed in polar media and materials, high-quality Graphistrength<sup>™</sup> 100 P50 MWNT bring outstanding mechanical properties, and/or electrical and thermal conductivities.



## Handling:

Because of limited toxicological data presently available for carbon nanotubes, maximum precautions have to be taken when handling.

Two main points have to be considered:

- Prevention of dust generation - In case of dust formation, workers have to wear appropriate protective clothing and gloves, to prevent skin contact. An appropriate respirator should be used for protection if there is a risk of inhalation.
- As for all powders, prevention of explosive mixtures with air - Equipment needs to be electrically grounded.

For more information, please refer to the Safety Data Sheet.

## Contacts:

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