

Multi-Walled Carbon Nanotubes, functionalized with the OH group

Background information

Description

Multi-walled carbon nanotubes of reduced length, functionalized with the OH-group.

Main Applications

Designed for research and development of polymer composites, adhesives, inks and coatings with given functionalities in which nanotubes are used as dispersed phase changing electrical, mechanical and adhesive properties of continuous phase.

Benefits

- Good electrical conductivity
- Purity
- Hydrophobicity
- Ease of production of dispersion in continuous phase
- Compatibility with specific polymer matrices.

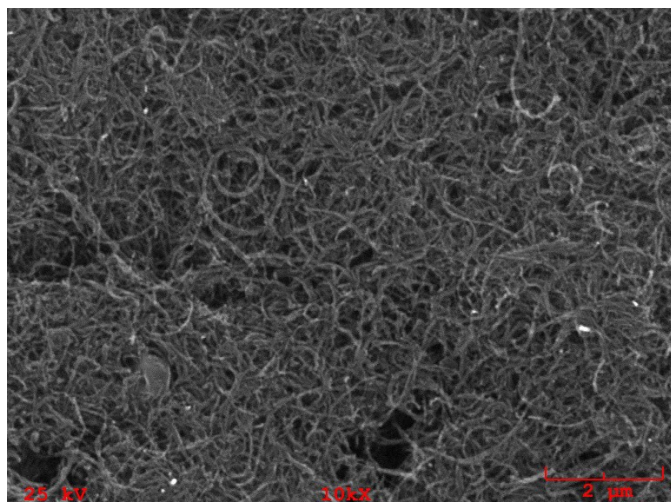
Technical data

Specific characterization

| Properties | Unit of measure | Value | Methods of evaluation |
|------------------------------|-----------------|---------|-----------------------|
| Average diameter | nm | 10 ÷ 30 | SEM, TEM |
| Average length | µm | 1 ÷ 2 | SEM |
| MWCNT content | wt. % | >99 | TGA |
| OH-group content | wt. % | 2.77 | TGA |
| Metal oxide content (Mo, Ni) | wt. % | <1 | TGA, SEM-EDX |

Characteristics

SEM image – scale : 2 μm .



Commercial/Safety Information

Packing

Multi-walled carbon nanotubes are available in bottle with double caps in quantities 5 g.

Ordering

You can order the product via <https://shop.carbon4nano.com/>

Health and Safety

Material Safety Data Sheets is available to provide both workers and emergency personnel with the proper procedures for handling or working with the product. This document includes information such as physical data (form and color, melting point, etc.), handling and storage recommendations, first aid measures and ecological information. The Safety Data Sheet is provided with any order and should be observed.