

Rhenofit® CNT-4

Special products

Product description

Rhenofit® CNT-4 is a water based suspension of single wall carbon nanotubes, which can be used directly for production of formulations. The suspension is stabilized; the employed carbon nanotubes are dispersed and the suspension is highly homogeneous. The applied process ensures non-destructive dispersing of carbon nanotubes in mild conditions.

Composition:

Composition: 0,2 wt% single wall carbon nanotubes

0,4 wt% dispersant agent in water

Appearance: stable black suspension

Odour: no odour

Compatibility: can be mixed with liquid systems and some polar organic solvents

Analytics

Amount of CNT = 0,2 wt%, solid phase part = 0,6 wt%

pH Value 7.0

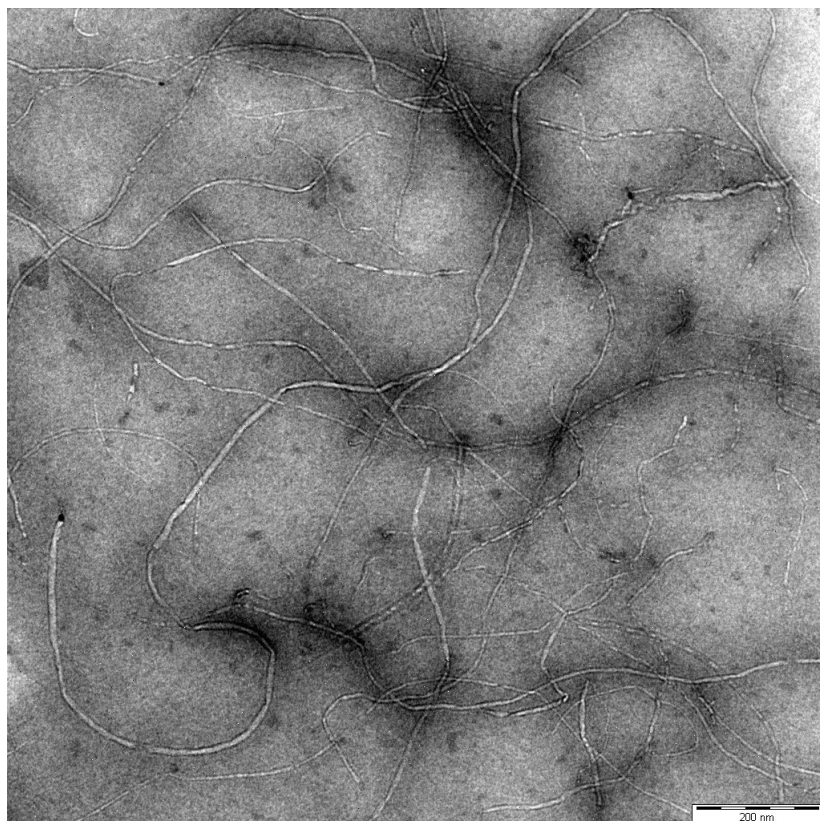


Image of Rhenofit[®]-CNT-4 from Transmission Electron Microscope

Application

Possible applications include, but are not limited to active material for electrodes in Li-ion batteries as well as lead acid batteries and supercapacitors.

Rhenofit[®] CNT-4 is especially developed for the mentioned application and is characterized by higher capacities and lower charging cycles.

Storage behaviour

The storage stability of Rhenofit[®] CNT-4 is guaranteed for at least 6 months in closed original tins at temperatures exceeding 10°C.

Handling

Please follow the instructions in our SDS.

Rhenofit[®] CNT is a ready to use dispersion, we recommend the following procedure:

- We recommend to stir Rhenofit[®] CNT before use
- Dilute Rhenofit[®] CNT with the pre-mixed formulation (order might be important)
- To get antistatic properties the dispersion can be diluted by the factor of 10
- Try to avoid to dilute Rhenofit[®] CNT with de-ionized water
- pH Value can be raised with NH₃ -solution to adapt to formulation if suitable

The indicated data are not to be considered as specifications.

Our technical advice - whether verbal, in writing or by way of trials - is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. Should, in spite of this, liability be established for any damage, it will be limited to the value of the goods delivered by us and used by you. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery.



LANXESS Deutschland GmbH
Business Unit Rhein Chemie Additives
Kennedyplatz 1
D-50569 Cologne, Germany
www.rheinchemie-additives.com