CARBOBYK-9810

Highly filled, aqueous dispersion of carbon nanotubes to improve the mechanical properties, electrical conductivity, and anti-static behavior.

Product Data

Composition
Dispersion of multiple-wall carbon nanotubes in water

Typical Properties
The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Carbon nanotubes content:	8 %
Density (20 °C):	1.08 g/ml
Non-volatile matter (20 min., 150 °C):	21 %
Carrier:	Water
Flash point:	> 100 °C

Food Contact Legal Status
For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation
Temperature for transport and storage must be below 35 °C. Mix well before use.

CARBOBYK-9810 has a pronounced structural viscous behavior. The viscosity increases considerably during storage so that the product becomes a paste. Mixing the product well, e.g. with a dissolver, can reduce the viscosity again to a range of around 100 mPa·s.

Applications

Special Features and Benefits
Incorporating carbon nanotubes in coatings, printing inks, plastics or adhesives will improve the electrical and thermal conductivity, the anti-static behavior, the mechanical properties, and the shielding against electromagnetic waves. The additive is recommended only for aqueous systems.

Recommended Use

Architectural coatings	■
Industrial coatings	■
Adhesives	□
Automotive coatings	□
Plastics industry	□
Printing inks	□
Wood coatings	□

■ especially recommended □ recommended

Recommended Levels

0.3-3 % additive on solids in the formulation.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

The additive should preferably be post-added to the coating using a low shear rate.

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