Technical Data Sheet

DEUTERON LE 200
DEUTERON LE 292

Antistatic Additives based on Quaternary Ammonium Compounds

Deuteron® ADDITIVES TO YOUR SUCCESS

Product Characteristic

Deuteron	LE 200	LE 292
Active content	approx. 100 %	approx. 90 %
Solvent	–	Isopropanol
Density	approx. 1.02 g/cm³	approx. 0.98 g/cm³
Viscosity	approx. 44000 mPa*s	approx. 700 mPa*s
Acid number	approx. 9.5 mg KOH/g	approx. 8.5 mg KOH/g
pH-value	approx. 7.5 (1 % in water)	approx. 7.5 (1 % in water)
Ionogenicity	cationic	cationic
Appearance	yellowish paste	yellowish liquid

Product Description

Deuteron LE 200 and LE 292 are conductivity additives based on a branched quaternary ammonium compound. The use of these anti-static additives allows the adjustment of the surface and volume resistivity in various systems. This effect is mainly based on surface migration and the ionic character of the cations. The products are miscible in polar solvents or water. Other solvents or mixtures commonly used in coatings have to be checked.

The products are biodegradable according to OECD. Compared to other quaternary ammonium compounds, these products are not hazardous substances.

Applications

Deuteron's antistatic additives are able to lower resistivity values of surface and volume resistivity. The effect of quaternary ammonium compounds is highly influenced by the type of system (resins, additives, pigments, etc.) and by the chosen measurement conditions. The suitability and effectiveness must be checked in each individual case.

Fields of application include:

- Electrostatic adjustment of spray paints
- PU systems (foam, shoe soles and casting resins)
- UV and EB curable systems
- PVC
- Floor coatings
- Synergistic wetting agent for carbon blacks, graphite and carbon fibres

Dosage

Typical addition level: 0.2 % - 5 %. The exact quantities to be used depend on the system and must be determined individually for the intended application.

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Processing

Deuteron LE 200 and LE 292 can be added to the system at any time during the production process or as post addition additives. They can be used to prepare an intermediate by diluting in suitable polar solvents or water. As phase separation can occur, the products must be stirred well before use.

Storage Conditions

24 months in tightly closed original containers at room temperature. Low temperatures can lead to a viscosity increase or solidification. The product can be reliquefied by slowly warming it up.

Package Sizes

Sheet steel hobbock (25 kg net)
Sheet steel drum (200 kg net)

Safety

According to Regulation (EC) No. 1272/2008 Deuteron LE 200 and LE 292 are classified as dangerous products and therefore need to be labelled.

For detailed information please refer to the Safety Data Sheet and Regulatory Information Sheet. The documents are also available on our website:

https://www.deuteron.com/en/download-center/

Deuteron: First class products for the coating industry

Deuteron GmbH successfully develops and sells innovative additives since 1977. Our product range consists of matting agents, anti-static additives, texturing additives, thickeners and UV initiators. In the course of our company history we have become an important partner of the national and international paint, lacquer and coating industry with sales partners around the globe.

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