



Technical Data Sheet

DEUTERON VT 856

Thickener based on Xanthan gum dispersed in Ethoxypropanol

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■ Product Characteristic

Appearance	yellow paste
Active content	approx. 40 %
Density	approx. 1.2 g/cm ³
Viscosity	approx. 5000 mPa*s
Solvent carrier	1-Ethoxy-2-propanol
Flashpoint	40 °C



■ Product Description

Deuteron VT 856 is a solvent based suspension of Deuteron XG. Due to its pasty delivery form, it can be easily dosed and stirred in by hand. It is soluble in cold and hot water and results in pseudoplastic solutions.

Solutions based on Deuteron VT 856 tolerate a wide temperature and pH range. At pH levels < 2 and > 12 depolymerisation and thus a decrease in viscosity can occur.

Solutions of Deuteron VT 856 tolerate the presence of up to 40 % of organic solvents such as alcohols or glycol ethers. Deuteron VT 856 is insoluble in pure organic solvents.

Deuteron VT 856 is stable in anionic and non-ionic systems. In cationic systems it may come to incompatibilities.

Deuteron VT 856 creates a strong structure viscosity. The viscosity decreases when the shear force is increased. It quickly returns to the base viscosity when the shear force is removed. This prevents settling of pigments and fillers and separation of the liquid phase during storage. It also makes application easier by stabilising the sagging behaviour.

The product is compatible with most commonly-used binders and thickeners used in the coating industry.

■ Applications

Deuteron VT 856 is suitable for the following applications:

- › General viscosity adjustment
- › Reduction of floating / settling of waxes and pigments
- › Improved stability / anti-sagging
- › Preparation of stable gels

Deuteron VT 856 especially improves performance in:

- › Water-based coatings and printing inks
- › Pigment concentrates
- › Emulsion paints and plasters
- › Water based adhesives
- › Cleaning products

■ Dosage

The required addition level depends on the requirement / target properties:

- | | |
|---|-------------|
| a) Thickening / Gel formation: | 0.3 - 3.0 % |
| b) Stabilisation of solids against sedimentation: | 0.3 - 0.7 % |
| c) Anti-sagging: | 0.3 - 0.7 % |



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■ Processing

In case that no dispersing equipment is available, it is possible to stir Deuteron VT 856 into the aqueous phase by hand. In such a case it is recommended to add Deuteron VT 856 and gradually add water while stirring. The thickening effect of Deuteron VT 856 does not start immediately, but is slightly delayed. After a swelling time of approx. 15 minutes and repeated stirring, the dispersion of Deuteron VT 856 should be completed.

Thickener solutions based on polysaccharides should be stabilized against fungal and bacterial growth with a suitable biocide. All broad range biocides used in the paint industry are suitable.

■ Storage Conditions

12 months at room temperature and dry conditions.

■ Package Sizes

Steel drum (25 kg net)

■ Safety

According to Regulation (EC) No. 1272/2008 Deuteron VT 856 is classified as a dangerous product and therefore does 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.

This leaflet intends to give technical advice without warranty and does not claim to be complete.



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