

DEUTERON VT 856

Easily digestible thickening and stabilizing agent for aqueous systems. Paste-like and free flowing.

/ Chemical Description

Anionic heteropolysaccharide (Xanthan Gum) in 1-ethoxy-2-propanole, stabilized

/ Physical Data

Appearance	cream-colored, well-flowing paste
Solid content	approx. 40 %
Viscosity	approx. 11.000 mPa·s
Specific Weight	app. 1.1 g/cm ³
pH-Value of a 1 % solution	approx. 7
Flash Point	40 °C



/ Properties

Deuteron VT 856 is fully swellable in water and mixtures of water-mixable solvents containing at least 60 % of water. Preparations of Deuteron VT 856 show a high pseudoplasticity. High rate of shear lowers the viscosity. Reducing the shear rate increases viscosity again. The preparations are stable regarding the pH-value and temperature. There is almost no change in viscosity from pH 2 - 12. The temperature hardly has any influence on the viscosity of a preparation with Deuteron VT 856.

In pigmented aqueous systems, such as dispersion paint and cast, the use of Deuteron VT 856 prevents a deposition of the pigments and fillers as well as a separation of the liquid phase during storage. The applicability of the coating materials is improved. The product is compatible with most binding and thickening agents commonly used in the paint industry. When properly used, Deuteron VT 856 allows the preparation of highly viscous systems without technical help.

/ Application

For aqueous systems, such as dispersion paint, glue, dispersion plaster, water-dilutable lacquer, printing inks, silicate paint, aqueous pigment/filler preparations.

Especially well suited for the building and do-it-yourself sectors. Wherever high viscosity and pseudoplastic behavior are required but high-performance stirring devices, such as dissolvers, are not available.

/ Dosage

Depending on the requirements, 0,1 - 2,0 %, calculated on the basis of the water content.

/ Processing

The digestion of Deuteron VT 856 requires no great rate of shear; a careful addition under slight stirring is sufficient. On the other hand it is possible that air may get included during processing with a dissolver which might then stabilize during swelling. This must be taken into consideration.

If stirring or dispersion devices are not available, it is possible to mix Deuteron VT 856 manually into the aqueous phase. It is recommended to fill in Deuteron VT 856 first and then add water bit by bit while stirring, just like in the preparation of a paste. The thickening effect of Deuteron VT 856 does not begin immediately, but with some delay. After a swelling time of 15 minutes and another stirring, the swelling of Deuteron VT 856 should be complete. If, due to improper circumstances, the swelling process should not be complete at that point of time, one can expect a satisfactory result after overnight storage and repeated agitation. In case of doubt, the optimal swelling time should be determined by means of a small manual test.

/ Conservation

Aqueous preparations of Deuteron VT 856 should be preserved when they are stored for more than 24 hours. Compatibility is given with preservatives which are customary in the paint industry.

/ Storage conditions

Deuteron VT 856 can be stored for at least 6 months at room temperature and dry conditions. An eventual slight formation of serum in Deuteron VT 856 can be easily removed by stirring. For that purpose, shear force is not required. There is no sedimentation.

/ Package Sizes

Sheet steel hobcock (25 kg net)

/ Safety Regulations

According to Regulation (EC) No. 1272/2008 Deuteron VT 856 is classified as a dangerous product and therefore needs to be labeled. For more information please consult the safety data sheet.

/ Thickening and Thixotropy Agents from our portfolio

Deuteron SR 28

Deuteron VT 856

Deuteron XG

Deuteron VT 819

Deuteron VT 855

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