

TIXOGEL-DMC

Fully activated rheology additive based on organophilic phyllosilicate for oil and solvent phases in personal care applications.

Product data

Composition

Gel of organophilic phyllosilicate (INCI: Dimethicone, Quaternium-90 Bentonite, Triethyl Citrate)

Vegan

Typical properties

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

Viscosity (25 °C, 0.5 rpm): 1,500,000–3,500,000 mPa·s

Total viable count: max. 100 cfu/g

Color: pale green

Delivery form: gel

Storage and transportation

TIXOGEL-DMC should be transported and stored dry in unopened original packaging at temperatures between 0 °C and 30 °C.

Applications






Personal care

Special features and benefits

TIXOGEL-DMC is an easy-to-use rheology additive, specially designed to facilitate the development and production of D5-free formulations with improved sensoriality. It consists of a fully activated quaternium-90 bentonite, an organically modified bentonite, dispersed in a low-viscosity dimethicone for use in cosmetic products.

TIXOGEL-DMC provides thixotropic flow behavior and stabilizes emulsions in a wide range of solvents. The additive is used to thicken and stabilize emulsions, suspend pigments in color cosmetics and skin care products, and is compatible with cold processing methods. It is particularly beneficial for enhancing the sensory properties of D5-free formulations, as it delivers a dry, silky, and non-tacky feel to the skin. TIXOGEL-DMC enhances the spreadability of creamy textures and, in stick and waxy formulations, minimizes drag while improving the pour performance.

Recommended use

| | |
|-----------------------|---|
| Creams and lotions |  |
| Sunscreen products |  |
| Liquid makeup |  |
| Antiperspirants/deos |  |
| Hair styling products |  |

 especially recommended  recommended

Recommended levels

3–20 % additive (as supplied) based on the total formulation, when used in emulsions.

The final amount of TIXOGEL-DMC used depends on the desired thickening and stabilization in the formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

TIXOGEL-DMC can be easily incorporated at almost any stage of the manufacturing process with medium shear. For an optimal dispersion, the additive is mixed and homogenized with a portion of the most compatible organic component or solvent of the formulation before other ingredients are added.

TIXOGEL-DMC can be used for cold processing.

Special note

TIXOGEL-DMC is a fully activated mastergel. It does not require further activation.



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This issue replaces all previous versions.