

TIXOGEL MP 250

Gelling Agent for Cosmetic Applications

Product Data

Special Features and Benefits

TIXOGEL MP 250 is an organoclay thixotrope designed for use in cosmetic and personal care systems to develop thixotropic rheological control. TIXOGEL MP 250 is designed as a highly efficient easy-to-disperse and self-activating gellant for medium to high polarity organic fluids. TIXOGEL MP 250 needs no polar activator.

Recommended Use

TIXOGEL MP 250 may be used in all medium to high polarity organic fluid systems. Application areas include skin cleansers, lip products, sun skin-care products, creams and lotions, and make-up.

Suitable Solvents

Lanolin, Isopropyl myristate, C12-15 alcohols benzoate.

Composition

<u>INCI Name</u>	<u>CAS No.</u>	<u>ELINCS Number</u>
Stearalkonium Bentonite	71011-24-0	275-124-3

Typical Properties

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

Aspect:	Light Cream Powder
Specific Density:	1.5 g/cm ³
Primary Particle Size at Complete Dispersion:	1-5 µm
Temperature Stability:	about 200 °C
Water Content:	max. 3 %
Loose Bulk Density:	250-440 g/l
Residue on 90 µm Screen:	max. 30 %

Incorporation and Processing Instructions

For maximum efficiency TIXOGEL MP 250 must be subjected to shear. TIXOGEL MP 250 is effective over a wide range of organic fluid systems and has no processing temperature requirements. TIXOGEL MP 250 can be dispersed using a high-speed disperser. TIXOGEL MP 250 can be incorporated either using a pregel or in-situ incorporation.

Pregels can be prepared by the following procedure:

1. Charge organic fluid to the dispersion vessel.
2. Slowly add TIXOGEL MP 250 (10 % by weight of total pregel) to mixer under agitation.
3. Mix at high speed for 5 minutes.

In-situ incorporation can be accomplished via the following procedure:

1. Charge organic fluid to the dispersion vessel.
2. Slowly add TIXOGEL MP 250 under agitation.
3. Mix at high speed for 5 minutes.
4. Continue with mixing phase...

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When post-adding TIXOGEL MP 250, care must be exercised to insure proper dispersion. Use of TIXOGEL MP 250 as a post-additive in extremely hot systems may lead to premature wetting resulting in poor dispersion. As a general rule, add TIXOGEL MP 250 to systems at or below 50 °C.

TIXOGEL MP 250 can be post-added, but this should be done only under high-speed disperser.

Post-addition of TIXOGEL MP 250 is not recommended in nail lacquers. Here a pregel should be used in order to obtain ultra high gloss.

Special Note

Surfactants and emulsifiers should be added only after the TIXOGEL MP 250 has been dispersed, or possible loss or decrease in efficiency of the TIXOGEL MP 250 can result.

For use in emulsions, TIXOGEL MP 250 should be added to the oil phase.

Recommended Levels

Typically, 1 to 3 % loading (based upon total formulation weight) is a good starting point to increase viscosity, control syneresis, and provide thixotropy. TIXOGEL MP 250 at these same concentrations will function as an auxiliary emulsifier in water-in-oil emulsion systems.

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

Storage and Transportation

Two years if stored dry in unopened, original packaging at temperatures between 0 °C and 30 °C.

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