

TIXOGEL-MP

Gellant

Product Data

Special Features and Benefits

TIXOGEL-MP is a product of the Maximum Performance organoclay series. It is a highly efficient thixotropic agent. TIXOGEL-MP is optimized for low to medium polarity solvent based coating systems.

TIXOGEL-MP is a new generation high performance organoclay which exhibits excellent rheology and efficiency. Due to its high efficiency, TIXOGEL-MP can often be utilized at lower loading levels than competitive organoclays of the same family.

Recommended Use

TIXOGEL-MP can be used in low and medium polarity solvent-based coating systems.

Suitable Solvents/Resins

Rule 66 mineral spirits, VM&P naphtha, aromatic naphthas, toluene, xylene, kerosene, 140 solvent, heptane.

Composition

organophilic smectite

Typical Properties

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

Form:	free flowing powder
Colour:	cream
Specific weight:	approx. 1,8 g/cm ³
Bulk density:	400-650 g/l
Dry sieve residue on 90 µm:	max. 30 %
Primary particle size at complete dispersion:	1-5 µm
Moisture content:	max. 3 %

Incorporation and Processing Instructions

For maximum efficiency TIXOGEL-MP must be subjected both to shear and polar activation. TIXOGEL-MP is effective over a wide range of solvent systems and has no processing temperature requirements. TIXOGEL-MP can be dispersed using a high speed disperser. Suggested polar activators are:

Methanol/H ₂ O (95/5)	33 % relative to dry TIXOGEL-MP
Ethanol/H ₂ O (95/5)	50 % relative to dry TIXOGEL-MP
Propylene carbonate/H ₂ O (95/5)	33 % relative to dry TIXOGEL-MP

It is recommended that TIXOGEL-MP be utilized in the grind portion of a paint. It is not necessary to pregel TIXOGEL-MP.

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

- 1) Charge solvent and portion of resin to mill
- 2) Slowly add TIXOGEL-MP under agitation
- 3) Mix at high speed for 5 minutes
- 4) Add polar activator
- 5) Further mix at high speed for 5 minutes
- 6) Continue with grind phase

Special Note

Wetting agents should be added only after the TIXOGEL-MP has been activated.

Recommended Levels

TIXOGEL-MP is typically used at levels of 0.2-0.1 %. To control sag 0.4-0.6 % are typically needed.

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 packing at temperatures between 0 °C and 30 °C.

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