

## LAVIOSA VISCOGEL™ XGM

### Rheological Additive for Lubricating Grease Manufacture

#### General information

**LAVIOSA VISCOGEL™ XGM** rheological additive is an easy dispersing, self-activating organoclay grease gellant that exhibits high performance efficiency for thickening medium-to high-viscosity-index mineral oils, synthetic oils and other organic fluids.

#### Physical properties

<b>Composition</b>	organically modified bentonite clay
<b>Physical form</b>	white fine powder
<b>Moisture</b>	3 % maximum

#### Applications

LAVIOSA VISCOGEL™ XGM is easy to disperse and suitable for lubricating greases based on medium- to high- paraffinic oils, synthetic oils and other organic fluids, offering rapid yield development, high gel strengths, and increased efficiency.

LAVIOSA VISCOGEL™ XGM rheological additive is an interesting economic alternative to conventional clay gellants that require higher shear and chemical activation for optimal dispersion and performance.

#### Properties

LAVIOSA VISCOGEL™ XGM is a rheological and thixotropic additive that is easy to disperse and do not require external chemical activation, therefore eliminates expensive chemical activators. Shows an highly thickener capacity, offering one processing step and generates high viscosities. Is not harmful to the environment.

#### Incorporation

LAVIOSA VISCOGEL™ XGM requires no external chemical activator. A small amount of water (0.1-0.2% by weight of total formula) added to the all-oil-systems is recommended to aid the gelation process and optimizes organoclay use.

#### Level of Use

The level of use depends on the rheological properties needed, and the base oil being used. Compared with conventional organoclay gellants, typically 10%-15% less LAVIOSA VISCOGEL™ XGM is needed to develop a given grease consistency.

Start by substituting LAVIOSA VISCOGEL™ XGM at 10% lower loadings than the organoclay being replaced. Additional base oil can be added to bring the final organoclay concentration down to 85% to 90% of the normal usage level.

A concentration loading study is recommended to optimize the level of addition.

## **Storage stability and packing**

Storage is advisable in a dry, sheltered place in closed bags.

LAVIOSA *VISCOGEL*™ XGM rheological additive is available in 25 kg net paper bags. Viscogel® XGM has a shelf life of 3 (three) years from date of manufacture.

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