LAVIOSA

Technical Data Sheet

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Industrial Additives Division
Coatings

LAVIOSA ARGIMEL® XGM

Rheological Additive for Greases and Lubricants

General Information

LAVIOSA ARGIMEL® XGM rheological additive is a new high performing, highly effective easy dispersive rheological additive specifically tailored for greases and lubricants.

LAVIOSA ARGIMEL® XGM grease modifiers are based on very highly purified bentonite clay reacted with a quaternary ammonium salt through a cation exchange reaction and show high performance efficiency as thickening for medium-to high-viscosity-index mineral oils, synthetic oils and other organic fluids. It provides a good flow at high shear and a rapid gel formation once in a quite state (shear thinning behavior).

Table 1 Chemical-physical properties

Properties	Description
Composition	organically modified smectite
Physical form	white fine powder
Moisture	up to 3%

Applications

LAVIOSA ARGIMEL® 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 ARGIMEL® 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 ARGIMEL® XGM a rheological and thixotropic additive that is easy to disperse and do not require external chemical activation, therefore eliminates expensive chemical activators. It shows a highly thickening capacity, offering one step process possibility and generates high viscosities. Moreover, it is not harmful to the environment.

Incorporation

LAVIOSA ARGIMEL® 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 advisable to aid the gelation process and optimizes organoclay use.

Dosage

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

Start by substituting **LAVIOSA ARGIMEL® XGM** at 10% lower loadings than the replaced organoclay. 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 ARGIMEL® XGM** rheological additive is available in 20 kg net paper bags. **LAVIOSA ARGIMEL® XGM** has a shelf life of 3 (three) years from date of manufacture.

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