

FUNCTIONAL V-505

SHEAR STABLE THICKENER for FATTY OIL BASED LUBRICANTS

APPLICATION:

FUNCTIONAL V-505 is a clear, shear stable thickener (PSSI = 15) for vegetable-based or animal-based fatty oils to blend lubricants of ISO 46, ISO 68, or ISO 100 viscosity grade.

COMPOSITION:

The active component in **FUNCTIONAL V-505** is a polymer selected for its shear stability and good thickening efficiency. This polymer component is not readily biodegradable, but permits the viscosity adjustment of lubricants containing biodegradable base oil systems. The diluent in **FUNCTIONAL V-505** is a biodegradable vegetable oil.

Typical Properties	
Specific Gravity	0.93
Lbs per Gallon	7.75
Flash Point	150°C (300°F)
Kinematic Viscosity	8000 cSt at 100°C
Color	Yellow (<4 ASTM)
Shear Stability Index (PSSI) ASTM D6022	15%
Biodegradable Content	Approx. 80%

TREATMENT LEVEL:

A typical treatment level for an ISO 46 blend is 2.0%, 6.0% is required for an ISO 68 and 11% for an ISO 100 when canola oil is used as the base oil.

HANDLING:

While warming **FUNCTIONAL V-505** to about 65°C (150°F) may facilitate pumping and handling, extended storage of this, or any other vegetable oil-derived product, at elevated temperatures is not recommended. Safe handling precautions are the same as those to be used with vegetable oils; see the current Safety Data Sheet.

This Technical Data Sheet and the Safety Data Sheet contain information believed to be accurate and reliable. No warranty is made, however, to information beyond the control of FUNCTIONAL PRODUCTS INC. The engineering and management personnel of the user are responsible for determining the suitability of this or any product for any specific application, and this information is offered to them for that purpose

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