

Supplier - FUNCTIONAL

V-515*Thickener for Fatty Oil Based Lubricants**Viscosity Modifiers*

Typical Properties

Specific Gravity	0.930
Density,lbs/gal	7.75
Flash Point,°C(°F)	150 (300)
Kinematic Viscosity@100°C,cSt	7000 - 9000
Color	Yellow (< 4ASTM)
Biodegradable Content,%wt	85

Product Description

Triglyceride oils are sometimes to be preferred as base stocks for blending hydraulic fluids and lubricants intended for use in environmentally sensitive applications. A drawback, however, is that they are all of a similar light viscosity, only about 40 cSt at 40°C. **FUNCTIONAL V-515** is a thickener for vegetable-based or animal-based fatty oils, to blend lubricants of ISO 46, ISO 68 or ISO 100 viscosity grade. **Functional V-515** dose not make the lubricant tacky. Use **FUNCTIONAL V-570** or **FUNCTIONAL V-584** where the tackiness is desired. For application requiring higher oxidative stability **FUNCTIONAL V-516** is recommended.

COMPOSITION:

The active additive in **FUNCTIONAL V-515** is a polymer selected for its shear stability and effectiveness in thickening. This polymer component is itself not readily biodegradable, but permits the viscosity adjustment of lubricants from biodegradable base oil systems. The diluent in **FUNCTIONAL V-515** is a biodegradable vegetable oil. **FUNCTIONAL V-515** is biodegradable under all widely used standards.

HANDLING:

While warming **FUNCTIONAL V-515** 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 taken with vegetable oils; see the current Material Safety Data Sheet.

Applications

Typical (ISO 46)
 Typical (ISO 68)
 Typical (ISO 100)
 Hydraulic Fluids & High-shear Service (ISO 46)
 Hydraulic Fluids & High-shear Service (ISO 68)
 Hydraulic Fluids & High-shear Service (ISO 100)

Suggested Treat Rates, %

2.0 (in Rapeseed Oil)
 6.0
 15
 2.5
 7.0
 16

Print date: 23-03-26

Disclaimer: Information provided by this website and product page including specifications, applications and formulations are based on tests and data supplied by Smart Oil companies, manufacturers or any of our collaborated companies or suppliers, which are believed to be correct and reliable at the time of writing and data update. However, Smart Oil companies, manufacturers or any of our collaborated companies or suppliers make no warranty or responsibility, express or implied, of any kind regarding products, performance, formulations or applications, as operation conditions and application environments are beyond our control, or products will be modified by action of manufacturers or due to change in market environments. Users are herewith expressly requested to conduct test to determine the suitability of our products or product information before use. Furthermore, we regret that we cannot be responsible for informing customers any changes in specifications, formulations, or other technical contents on this website and product page. Also, We hereby state that all product trademarks other than Smart Oil, including trademarks from our , suppliers are the trademarks belong to the respective companies, or from their sources.