

FUNCTIONAL V-508

Dilute Versatile Thickener for Biobased and Synthetic Ester Lubricants

APPLICATION:

FUNCTIONAL V-508 is a liquid viscosity modifier for a wide range of ester lubricants including vegetable oil, blown oils, and synthetic esters. **FUNCTIONAL V-508** performs in both saturated and unsaturated ester base fluids as an economical and stable means of achieving higher viscosity. **FUNCTIONAL V-508** is also compatible in water insoluble and oil soluble polyalkylene glycol (PAG) fluids. The concentration has been reduced to improve handling.

FUNCTIONAL V-508 is NSF HX-1 approved and listed on the Ecolabel LuSC list which meets VGP requirements.

COMPOSITION:

FUNCTIONAL V-508F is a proprietary copolymer in a vegetable oil. **FUNCTIONAL V-508F** is readily biodegradable under all widely used standards.

Typical Properties	
Specific Gravity	0.93
Lbs per Gallon	7.75
Flash Point	150°C (300°F)
Kinematic Viscosity	1100-1400 cSt at 100°C
Biodegradable Content	84%
Shear Stability Index (PSSI), ASTM D6278 (10wt% in Canola)	29 SSI
20hr KRL Shear Stability, CEC L-45-A-99 (10wt% in Canola)	84%

TREATMENT LEVEL:

3 – 50wt% **FUNCTIONAL V-508** is used to prepare ISO 46 – 680 fluids for hydraulics, rock drill, bar and chain, open gear, chain lubricants, and more. **FUNCTIONAL V-508** is compatible in a wide range of biobased and synthetic esters.

FUNCTIONAL V-508 Treat Rates in Canola Oil (Starting From ISO 32-36)

ISO VG	46	68	100	150	220	320	460	680	1000	1500
wt%	3	9	15	21	27	33	39	47	53	61

HANDLING:

FUNCTIONAL V-508 may be warmed to about 50°C (120°F) to 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 Safety Data Sheet.

Nonfood Compounds
Program Listed
Category Codes: HX-1 and HX-2
Registration No. 146676

