

FUNCTIONAL V-508M

Concentrated Versatile Viscosity Modifier for Biobased/Synthetic Ester Lubricants

APPLICATION:

FUNCTIONAL V-508M is a liquid viscosity modifier for a wide range of ester lubricants including vegetable oil, blown oils, and synthetic esters. **FUNCTIONAL V-508M** performs in both saturated and unsaturated ester base fluids as an economical and stable means of achieving higher viscosity. **FUNCTIONAL V-508M** is also compatible in water insoluble and oil soluble polyalkylene glycol (PAG) fluids. The concentration has been reduced to improve handling. **FUNCTIONAL V-508M** is NSF HX-1 approved and listed on the Ecolabel LuSC list which meets VGP requirements.

COMPOSITION:

FUNCTIONAL V-508M is a proprietary copolymer in a vegetable oil and readily biodegradable under all standards.

Typical Properties	
Specific Gravity	0.93
Lbs per Gallon	7.75
Flash Point	>150°C (300°F)
Kinematic Viscosity	2500 cSt at 100°C
Biodegradable Content	80%
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:

2 – 40 wt% **FUNCTIONAL V-508M** is used to prepare ISO 46 – 680 fluids for hydraulics, rock drill, bar and chain, open gear, chain lubricants, and more. **FUNCTIONAL V-508M** is compatible in a wide range of biobased and synthetic esters.

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

ISO VG	46	68	100	150	220	320	460	680	1000	1500
wt%	2.5	7.5	12.3	17.4	22.3	27	31.6	36.5	41.4	46.6

HANDLING:

FUNCTIONAL V-508M 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 used with vegetable oils; see the current Safety Data Sheet.



Nonfood Compounds
Program Listed HX-1 and HX-2
Registration No. 171287