

FUNCTIONAL V-4318F

HIGHLY CONCENTRATED LIQUID STYRENE VISCOSITY MODIFIER (0-5 SSI)

APPLICATION:

FUNCTIONAL V-4318F is a concentrated and shear stable styrene olefin copolymer useful for high performance lubricants including top tier engine oils which require excellent low temperature fluidity and resistance to shear.

The inclusion of styrene into the VM provides greater VI enhancement, some dispersancy, and improved shear resistance relative to a straight olefin copolymer VM.

For easier handling viscosity, use **FUNCTIONAL V-4318**.

COMPOSITION:

FUNCTIONAL V-4318F uses styrene copolymer as the active component.

Typical Properties	
Appearance (Visual)	Colorless to Slight Yellow, Mild Haze
Color (ASTM D1500)	≤ 1.0
Flashpoint, Open Cup (ASTM D92)	>160°C / 320°F
Kinematic Viscosity @ 100°C	7200 cSt
Specific Gravity	0.86
Pounds per Gallon	7.2
Thickening Efficiency, 10wt% in ISO 32 Group I	14.0
Shear Stability Index, ASTM D6278, 30 cycle	0 - 5 SSI

TREATMENT LEVEL:

Treatment levels of 5% to 20% are recommended.

Example Formula	KV40, cSt	KV100, cSt	Viscosity Index
10wt% V-4318F in Group I 150SN	91.18	14.00	157
9wt% V-4318F in Group II 6cSt	106.7	15.16	149

HANDLING:

Storage at room temperature is recommended. **FUNCTIONAL V-4318F** can be heated (up to approximately 90°C or 200°F) to facilitate handling. **FUNCTIONAL V-4318F** is a non-hazardous material; 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.

Issued: 2025.03.03

Functional Products, Inc. 8282 Bavaria Rd. Macedonia, OH 44056

Ph: 330.963.3060 Fax:330.963.3322