

FUNCTIONAL PRODUCTS INC.

Innovative Chemistry for Lubricants

Technical Data Sheet

FUNCTIONAL V-158 VISCOSITY INDEX IMPROVER

APPLICATION:

FUNCTIONAL V-158 is a viscosity index (VI) improver for use in preparing multi-grade engine oils, including industrial fluids and lubricants. **FUNCTIONAL V-158** may be used without dilution as a supplemental crankcase additive for the automotive aftermarket.

COMPOSITION:

The active thickener in **FUNCTIONAL V-158** is a copolymer of ethylene and propylene used as a VI improver by major oil companies. The diluent in **FUNCTIONAL V-158** is a light paraffinic mineral oil.

Typical Properties	
Specific Gravity	0.85
Lbs per Gallon	7.1
Flash Point	175°C (350°F)
Kinematic Viscosity	1250 cSt at 100°C
Color	Yellow (1 - 2 ASTM)
Thickening efficiency (14.5% in ISO 32 paraffinic base oil)	12.5-15.5 cSt at 100°C
Shear Stability (10-hr L-38 test, MIL-L-46152)	28% thickening loss
Shear Stability Index (PSSI) ASTM D 6278	45%

TREATMENT LEVEL:

Treatment levels from 5 - 20% are typical in industrial lubricants and greases. Please refer to the application bulletins for more information.

HANDLING:

Due to the viscosity of **FUNCTIONAL V-158**, elevated temperature (up to approximately 90°C or 200°F) can facilitate handling. Safe handling precautions are the same as those to be taken with the base oil; see the current Safety Data Sheet.

Shelf life: 2 years

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.
