FUNCTIONAL V-160

SHEAR STABLE (22% PSSI) VISCOSITY INDEX IMPROVER IN LIQUID FORM

APPLICATION:

FUNCTIONAL V-160 is a viscosity index improver in concentrated liquid form. It can be used to prepare an economical additive for industrial oils or an aftermarket "oil treatment" additive. It may also be used as an inexpensive thickener for oil to avoid blending with expensive oils like bright stocks. Customers should evaluate the product in their base oil for compatibility and in particular performance at low temperatures. To improve the low temperature properties of the oil a pour point depressant such as **FUNCTIONAL PD-610** is recommended.

COMPOSITION:

The active ingredient in **FUNCTIONAL V-160** is a copolymer of ethylene and propylene that has been used as a V.I. improver by major oil companies. The diluent in **FUNCTIONAL V-160** is a paraffinic mineral oil.

Typical Properties	
Appearance	Viscous colorless to light-yellow liquid
Density ($^{lb}/_{gal}$)	7.1
Viscosity at 100°C	800-1300 cSt
Shear Stability Index (PSSI), ASTM D6278 30 Cycles	22%

TREATMENT LEVEL:

Treatment levels of 5% to 20% are typical in industrial lubricants and greases. A treat rate of 13% will raise an ISO 32 base oil to SAE 40 viscosity grade and will result in a VI of 150 (base oil VI of 100). The user should determine the compatibility and treatment level for use of this product in a specific base oil.

HANDLING:

Storage at room temperature is recommended. Due to the viscosity of **FUNCTIONAL V-160** at room temperature, elevated temperature (up to approximately 90°C or 200°F) can facilitate handling. **FUNCTIONAL V-160** is a non-hazardous material; see the current Safety Data Sheet.