

FUNCTIONAL V-135

Solid Polymer Viscosity Index Improver – 33 SSI

APPLICATION:

FUNCTIONAL V-135 is a viscosity index (V.I.) improver polymer supplied in bale form. It can be dissolved in oil to prepare an economical additive for multi-grade engine 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.

COMPOSITION:

FUNCTIONAL V-135 is an olefin copolymer, derived from ethylene and propylene.

Typical Properties	
Appearance	Clear to Off-White Bale
Specific Gravity:	0.87
% Ethylene	50
Thickening efficiency (1wt% in ISO 32 Gr. I)	11.9 cSt at 100°C
Thickening Efficiency (10wt% in ISO 22 Gr. II)	2046 cSt at 100°C
Shear Stability Index (PSSI) ASTM D6022	30-35%

TREATMENT LEVEL:

Treatment levels of 0.5-2.0% are typical in industrial lubricants and greases. The detergent-inhibitors used in formulating modern motor oils contain significant but varying levels of polymeric additives. The V.I. improver treatment level therefore depends on the choice of detergent package.

HANDLING:

FUNCTIONAL V-135 should be stored below about 120°F (50°C). It is a non-hazardous material; see the current Safety Data Sheet. Dissolving is best accomplished with continuous agitation at temperatures of 180-210°F (85-100°C). (Higher temperatures will not affect **FUNCTIONAL V-135** but may darken the diluent oil.)

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.

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

Ph: 330.963.3060 Fax: 330.963.3322