FUNCTIONAL PRODUCTS INC.

A Solution Company

Technical Data Sheet

FUNCTIONAL V-253

SHEAR STABLE VISCOSITY INDEX IMPROVER IN PELLET FORM

APPLICATION:

FUNCTIONAL V-253 is a viscosity index (V.I.) improver polymer in concentrated, granulated ("pellet") form. It is 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. Customers should evaluate the polymer in their base oil for compatibility and in particular performance at low temperatures.

COMPOSITION:

FUNCTIONAL V-253 is an olefin copolymer, derived from ethylene and propylene.

Typical Properties	
Appearance	White rubber
Specific Gravity:	0.87
Thickening efficiency (1.0% in ISO 32 oil)	12.6 cSt at 100°C
Shear Stability Index (PSSI) ASTM 6022	30%

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-253 should be stored below about 120°F (50°C), as higher temperatures may cause agglomeration due to cold flow of particles. It is a non-hazardous material; see the current Material Safety Data Sheet. Dissolving is best accomplished with continuous agitation at temperatures of 180-230°F (85-110°C). (Higher temperatures will not affect **FUNCTIONAL V-253** but may darken the diluent oil.)

7/26/2011

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