FUNCTIONAL PRODUCTS INC.

Innovative Chemistry for Lubricants

**Technical Data Sheet**

# FUNCTIONAL V-255

## SHEAR STABLE VISCOSITY INDEX IMPROVER IN PELLET FORM

### APPLICATION:

**FUNCTIONAL V-255** is an OCP 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-255** is an olefin copolymer, derived from ethylene and propylene.

| Typical Properties | |
|---|---|
| Appearance | White rubber |
| Specific Gravity: | 0.87 |
| Thickening efficiency cSt at 100 C. Treat rate by weight. | 1% treat ISO 32 Oil: 10.5 cSt<br>13.0% treat ISO 22 Oil: 1,045 cSt |
| Shear Stability Index (PSSI) ASTM D6278 | 25.5% |

### TREATMENT LEVEL:

Treatment levels of 0.5-2.0% are typical in industrial lubricants and greases.

The detergents and dispersants 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 additive package.

### HANDLING:

**FUNCTIONAL V-255** 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 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-255** but may darken the diluent oil.



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