

FUNCTIONAL V - 160 SUPERIOR HIGH SHEAR STABLE VISCOSITY INDEX IMPROVER

APPLICATION:

FUNCTIONAL V-160 is a viscosity index (V.I.) improver that may be used in preparing multi-grade engine oils as well as industrial fluids and lubricants. It may also be used without dilution as a supplemental crankcase additive for the automotive aftermarket.

COMPOSITION:

The active thickener 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 light paraffinic mineral oil.

| Typical Properties | |
|--|-------------------------|
| Specific Gravity | 0.87 |
| Lbs per Gallon | 7.25 |
| Flash Point | 175°C (350°F) |
| Kinematic Viscosity | 1000 cSt at 100°C |
| Color (ASTM D1500) | 3.0 max |
| Thickening efficiency (10.0% in ISO 22 oil) | 7.0 – 12.0 cSt at 100°C |
| Percent viscosity Loss ASTM D 6278, 30 cycles | 7.5% |
| Shear Stability Index (PSSI) ASTM D 6022 | 15% |

TREATMENT LEVEL:

Treatment levels from 5 - 20% are typical in industrial lubricants and greases.

HANDLING:

Due to the viscosity of **FUNCTIONAL V-160**, elevated temperature (up to approximately 90°C (200°F) can facilitate handling. Safe handling precautions are the same as those to be taken with the base oil; see the current Material Safety Data Sheet.

This Technical Data Sheet and the Material 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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