

VISCOPLEX® 0-050

A Shear-Stable VI Improver for Multigrade Gear Lubricants

A RohMax Product



Function

Viscosity index and low-temperature fluidity improver for multigrade gear oils.

Performance

VISCOPLEX® 0-050 is designed for use in SAE 75W-90 and other multigrade gear oil grades meeting stringent shear stability requirements. VISCOPLEX® 0-050 can be used in stocks ranging from mineral and hydrocracked oils to synthetics. VISCOPLEX® 0-050 has pour point depressant activity at low temperature.

Composition

VISCOPLEX® 0-050 is a viscous concentrate of polyalkyl methacrylate (PAMA) in a solvent-refined carrier oil.

Physical Data

Table 1 lists representative physical properties. (These do not constitute specifications.)

Blending Efficiency

The contribution to the kinematic viscosity at 100 °C of VISCOPLEX® 0-050 in straight mineral base oils is shown in Table 2.

VISCOPLEX® Series 0 Gear Oil Viscosity Index Improvers

Table 1

Typical Physical Properties of VISCOPLEX® 0-050

Visual Appearance	Clear
Color (ASTM D1500)	1
Viscosity at 100 °C, mm ² /s (ASTM D445)	450
Density at 15 °C, g/cm ³ (ASTM D4052)	0.93
Flash Point, °C (ASTM D3278)	140
Shear Stability Index (PSSI) KRL, 20 hour (CEC L-45-A-99)	20

Table 2 Thickening Effect of VISCOPLEX® 0-050 at 100 °C

	100 N			150 N			200 N			350 N		
VISCOPLEX® 0-050, % wt	0	10	20	0	10	20	0	10	20	0	10	20
Viscosity at 100 °C, mm ² /s	4.0	6.4	9.6	5.1	8.0	11.9	6.2	9.6	14.1	8.9	13.3	19.1

Density

The typical density of VISCOPLEX® 0-050, as a function of temperature, is given in Figure 1.

Bulk Viscosity

The typical bulk viscosity of VISCOPLEX® 0-050, as a function of temperature, is given in Figure 2.

Additional Information

For additional information on product availability, performance data and Material Safety Data Sheets, please contact your RohMax account manager or Customer Service Representative.

For an overview of our entire VISCOPLEX® and VISCOBASE® product range and complete information on handling and storage, please visit the Products & Applications section on our website www.rohmax.com.

Figure 1 Density vs. Temperature

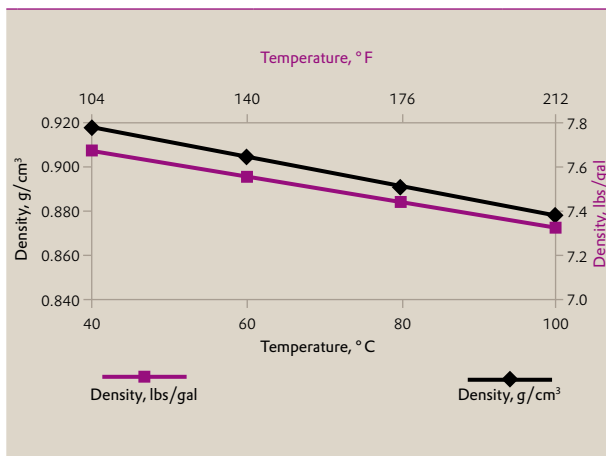
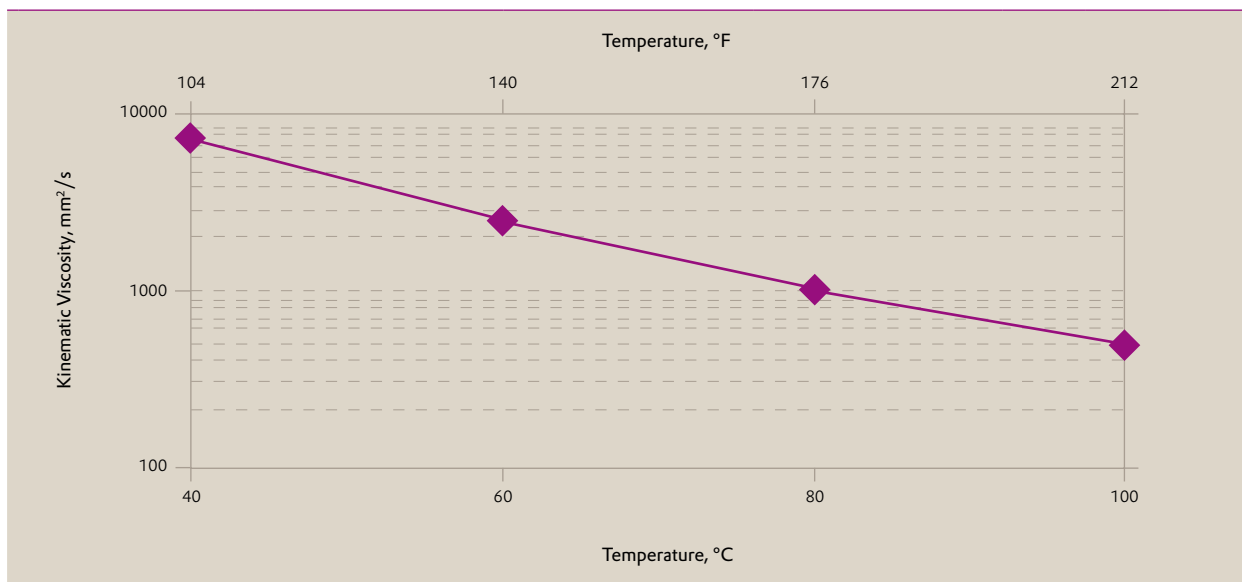


Figure 2 Kinematic Viscosity vs. Temperature



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