

VISCOPLEX® 8-407

An Efficient VI Improver for Hydraulic Lubricants

A RohMax Product



Function

Viscosity index improver and pour point depressant for hydraulic fluids.

Performance

VISCOPLEX® 8-407 offers high VI improvement in combination with a high level of shear stability. VISCOPLEX® 8-407 effectively controls paraffin crystallization and enables blending to achieve hydraulic fluids with superior low-temperature viscosities and pour points. VISCOPLEX® 8-407 is designed for use in formulations containing paraffinic or blends of paraffinic and naphthenic base oils. VISCOPLEX® 8-407 is manufactured for optimized filterability and demulsification requirements.

Composition

VISCOPLEX® 8-407 is a solution of polyalkyl methacrylate (PAMA) in highly refined mineral 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® 8-407 in straight mineral base oils is shown in Table 2.

VISCOPLEX® Series 8 Hydraulic Fluid Viscosity Index Improvers

Table 1 Typical Physical Properties of VISCOPLEX® 8-407

Visual Appearance	Clear, free of sediment
Color (ASTM D1500)	1.0
Viscosity at 100 °C, mm ² /s (ASTM D445)	1,600
Density at 15 °C, g/cm ³ (ASTM D4052)	0.934
Flash Point, °C (ASTM D3278)	120
Shear Stability Index (P-SSI) 250 Passes (DIN 51382)	15
Sonic Test (ASTM D5621) (P-SSI/wt %)	43/10

Table 2 Thickening Effect of VISCOPLEX® 8-407 at 100 °C

	100 N			150 N			200 N			350 N		
VISCOPLEX® 8-407, % wt	0	5	10	0	5	10	0	5	10	0	5	10
Viscosity at 100 °C, mm ² /s	4.0	6.3	9.5	5.1	8.0	11.8	6.2	9.6	14.0	8.9	13.3	18.9

Density

The typical density of VISCOPLEX® 8-407, as a function of temperature, is given in Figure 1.

Bulk Viscosity

The typical bulk viscosity of VISCOPLEX® 8-407, 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

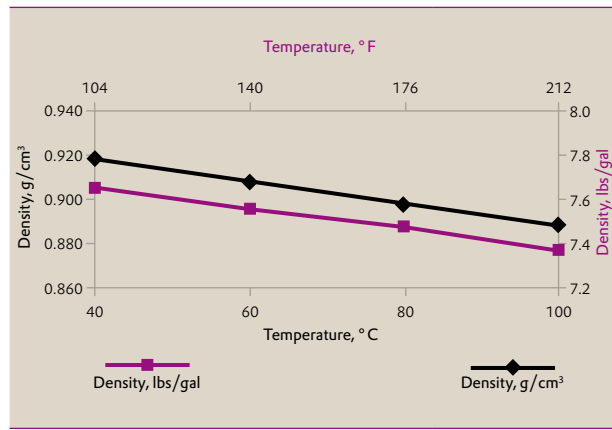
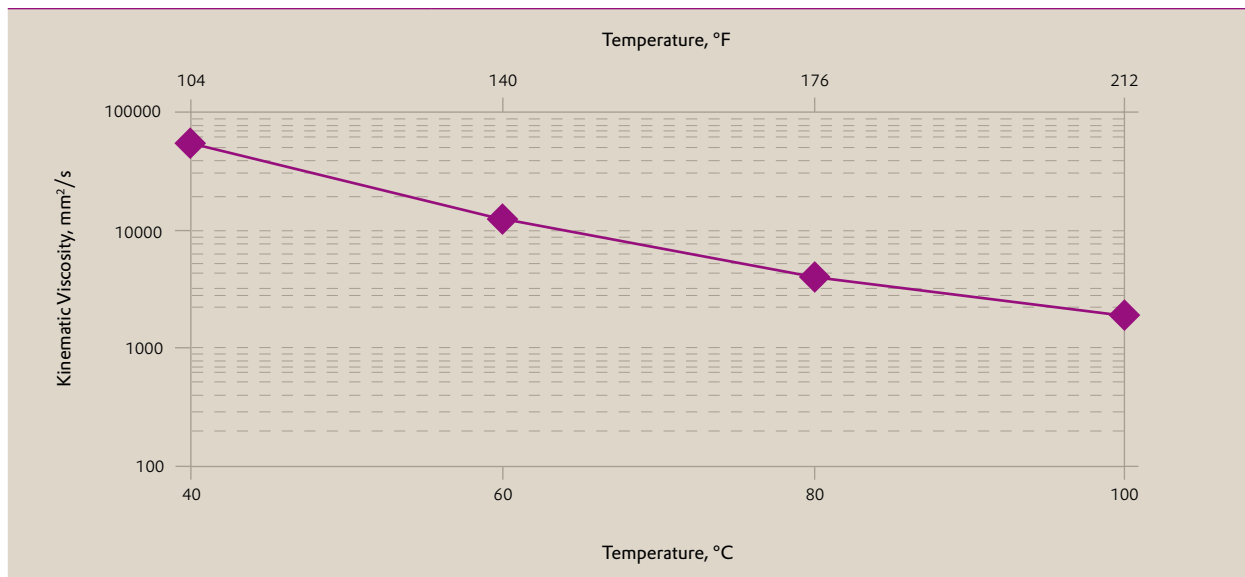


Figure 2

Kinematic Viscosity vs. Temperature



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