

VISCOPLEX® 8-112

An Highly Stable VI Improver for Hydraulic Lubricants

A RohMax Product



Function

Shear stable viscosity index improver and pour point depressant for hydraulic fluids that maintain performance under the harshest conditions.

Performance

VISCOPLEX® 8-112 offers VI improvement and very high shear stability. The additive effectively controls paraffin wax crystallization and allows blending of hydraulic fluids with superior low-temperature viscosities and correspondingly low pour points.

VISCOPLEX® 8-112 is designed for use in formulations containing paraffinic or blends of paraffinic and naphthenic base oils. VISCOPLEX® 8-112 is manufactured for demanding filterability and demulsification requirements. Typical addition rates: 22 % wt for a high-VI (>200) fluid for NC machines.

Composition

VISCOPLEX® 8-112 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® 8-112 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® 8-112

Visual Appearance	Clear to slightly hazy
Color (ASTM D1500)	2
Viscosity at 100 °C, mm ² /s (ASTM D445)	315
Density at 15 °C, g/cm ³ (ASTM D4052)	0.94
Flash Point, °C (ASTM D3278)	>120
Shear Stability Index (P-SSI) (ASTM D5621) Sonic Test (P-SSI/wt %)	8/10
(CEC L-45-A-99) KRL 20h (P-SSI/wt %)	16/10

Table 2 Thickening Effect of VISCOPLEX® 8-112 at 100 °C

	100 N			150 N			200 N			350 N		
	0	5	10	0	5	10	0	5	10	0	5	10
VISCOPLEX® 8-112, % wt												
Viscosity at 100 °C, mm ² /s	4.0	5.1	6.1	5.1	6.3	7.7	6.2	7.6	9.2	8.9	10.7	12.8

Density

The typical density of VISCOPLEX® 8-112, as a function of temperature, is given in Figure 1.

Bulk Viscosity

The typical bulk viscosity of VISCOPLEX® 8-112, 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

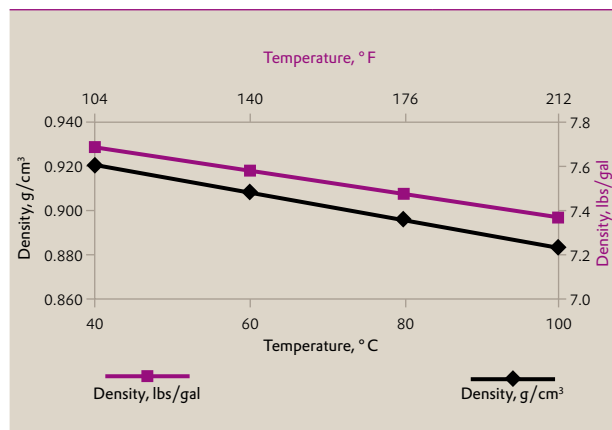
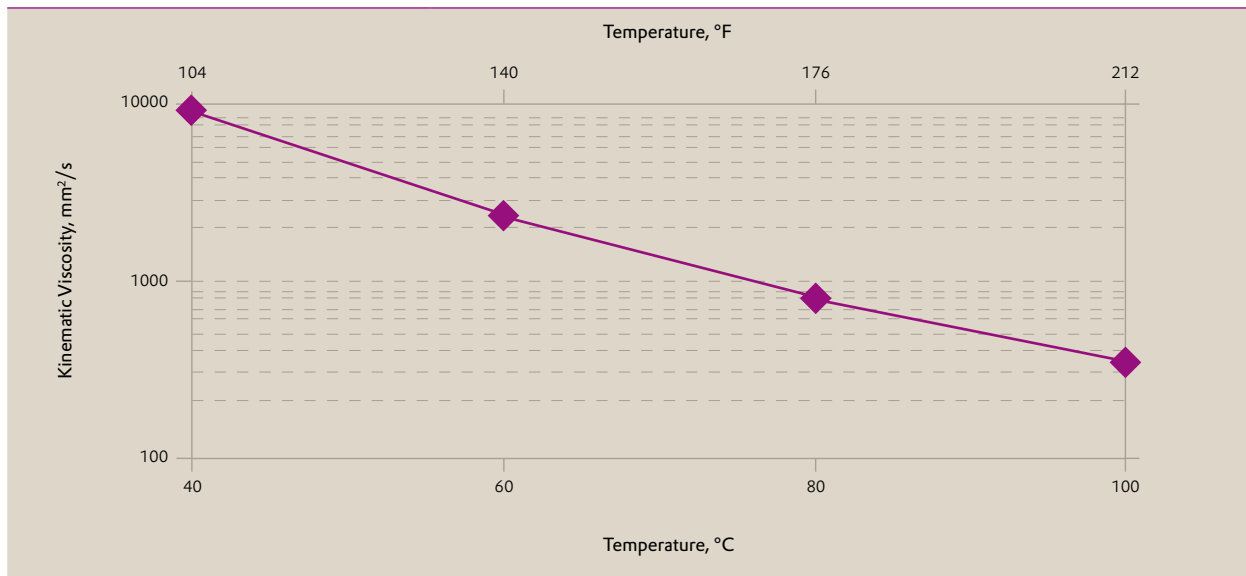


Figure 2

Kinematic Viscosity vs. Temperature



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