

VISCOPLEX® 8-251

An Efficient VI Improver for Hydraulic Lubricants

A RohMax Product



Function

Viscosity index improver for hydraulic fluids.

Performance

VISCOPLEX® 8-251 offers high VI improvement in combination with very high shear stability. VISCOPLEX® 8-251 effectively controls paraffin crystallization and, in combination with a suitable PPD, enables blending to achieve hydraulic fluids with superior low-temperature viscosities and pour points. VISCOPLEX® 8-251 is designed for use in formulations containing paraffinic or blends of paraffinic and naphthenic base oils. VISCOPLEX® 8-251 is manufactured for demanding filterability and demulsification requirements.

Composition

VISCOPLEX® 8-251 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® 8-251 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® 8-251

Visual Appearance	Viscous, clear
Color (ASTM D1500)	1
Viscosity at 100 °C, mm ² /s (ASTM D445)	1,100
Density at 15 °C, g/cm ³ (ASTM D4052)	0.94
Flash Point, °C (ASTM D3278)	140
Shear Stability Index (P-SSI)	
(DIN 51382) 30 Passes	4
(DIN 51382) 250 Passes	10
(ASTM D5621) Sonic Test (P-SSI/wt %)	36/6
(CEC L-45-A-99) KRL 20h (P-SSI/wt %)	47/6

Table 2 Thickening Effect of VISCOPLEX® 8-251 at 100 °C

	100 N			150 N			200 N			350 N		
	0	5	10	0	5	10	0	5	10	0	5	10
VISCOPLEX® 8-251, % wt												
Viscosity at 100 °C, mm ² /s	4.0	6.0	8.6	5.1	7.5	10.7	6.2	9.1	12.7	8.9	12.6	17.3

Density

The typical density of VISCOPLEX® 8-251, as a function of temperature, is given in Figure 1.

Bulk Viscosity

The typical bulk viscosity of VISCOPLEX® 8-251, 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

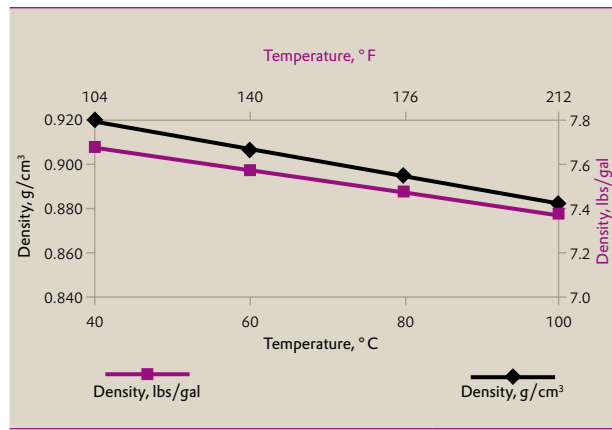
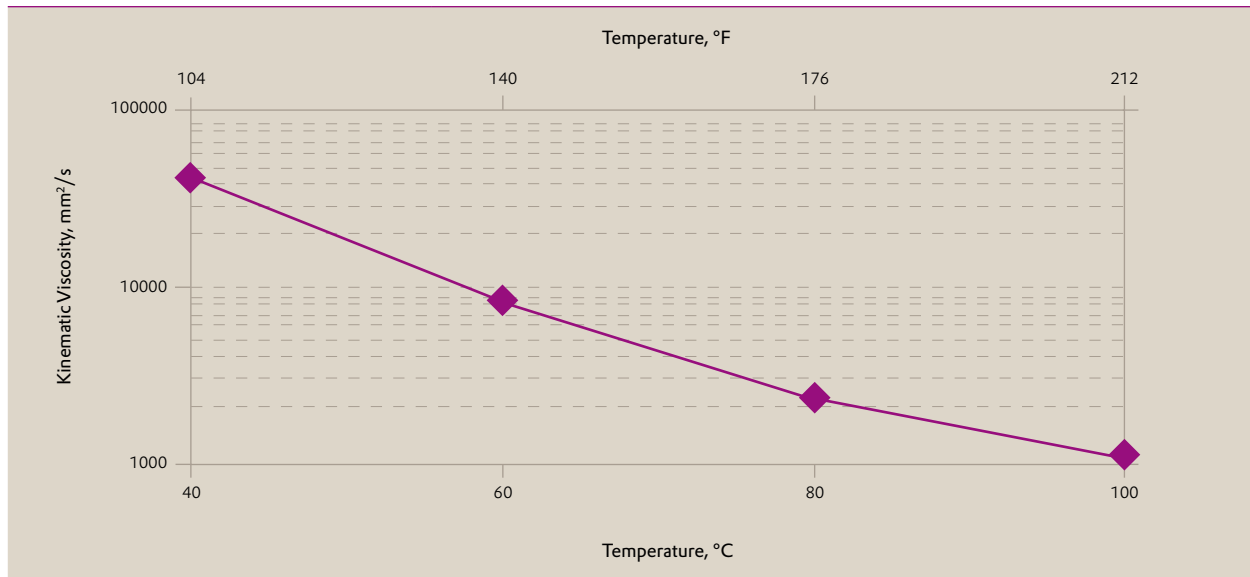


Figure 2

Kinematic Viscosity vs. Temperature



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