

VISCOPLEX® 8-200

An Efficient VI Improver for Hydraulic Lubricants

A RohMax Product



Function

Viscosity index improver with pour point depressant properties for hydraulic fluids.

Performance

VISCOPLEX® 8-200 offers high VI improvement in combination with very high shear stability. VISCOPLEX® 8-200 effectively controls paraffin crystallization and enables blending to achieve hydraulic fluids with superior low-temperature viscosities and pour points. VISCOPLEX® 8-200 is designed for use in formulations containing paraffinic or blends of paraffinic and naphthenic base oils. VISCOPLEX® 8-200 is manufactured for demanding filterability and demulsification requirements. Typical addition rate: 11.4% wt for ISO VG 46, VI 175.

Composition

VISCOPLEX® 8-200 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® 8-200 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® 8-200

Visual Appearance	Clear, free of sediment
Color (ASTM D1500)	0.5
Viscosity at 100 °C, mm ² /s (ASTM D445)	674
Density at 15 °C, g/cm ³ (ASTM D4052)	0.94
Flash Point, °C (ASTM D3278)	150
Shear Stability Index (P-SSI) (DIN 51382) 30 Passes	0
(DIN 51382) 250 Passes	4
(ASTM D5621) Sonic Test (P-SSI/wt %)	19/7.4
(CEC L-45-A-99) KRL 20h (P-SSI/wt %)	39/7.4

Table 2 Thickening Effect of VISCOPLEX® 8-200 at 100 °C

	100 N			150 N			200 N			350 N		
	0	5	10	0	5	10	0	5	10	0	5	10
VISCOPLEX® 8-200, % wt												
Viscosity at 100 °C, mm ² /s	4.0	5.5	7.4	5.1	7.0	9.3	6.2	8.4	11.0	8.9	11.9	15.6

Density

The typical density of VISCOPLEX® 8-200, as a function of temperature, is given in Figure 1.

Bulk Viscosity

The typical bulk viscosity of VISCOPLEX® 8-200, 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

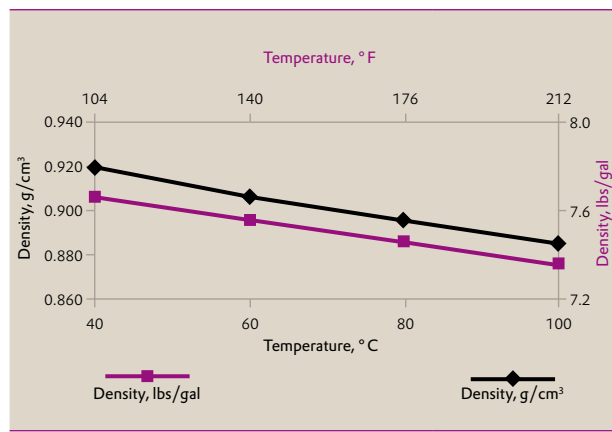
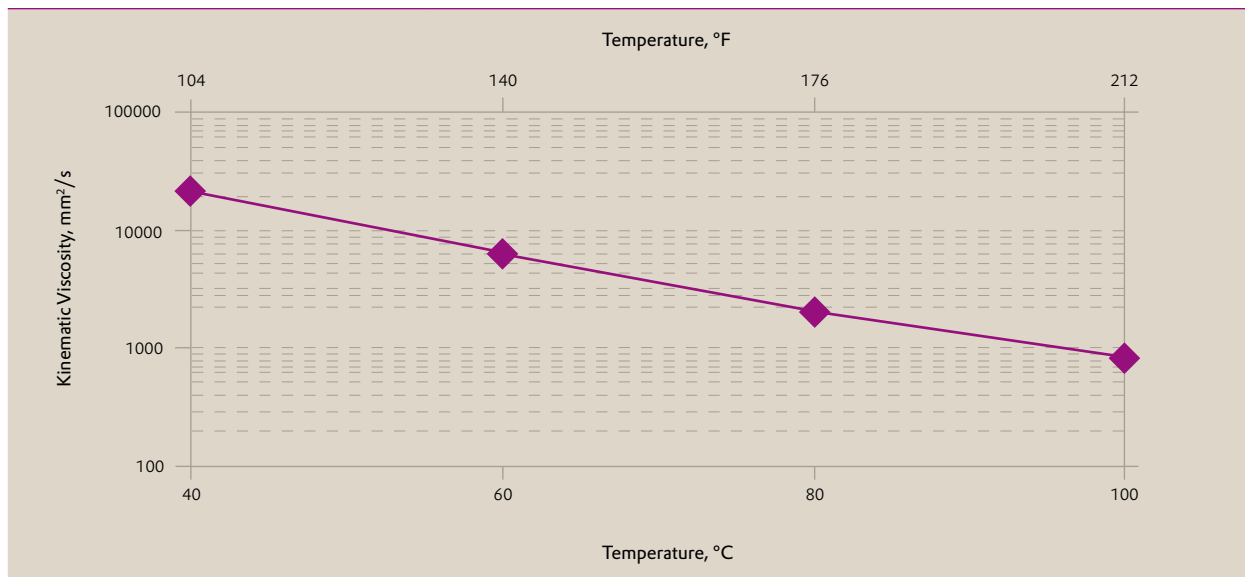


Figure 2

Kinematic Viscosity vs. Temperature



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Europe, Africa, Mideast:

Evonik RohMax Additives GmbH • Kirschenallee • 64293 Darmstadt • Germany • TEL: +49 6151 1809

Americas:

Evonik RohMax USA, Inc. • 723 Electronic Drive • Horsham, Pennsylvania 19044-2228 • TEL: +1 215 706 5800 • TOLL-FREE: 1 888 876 4629

Asia Pacific:

Evonik RohMax Asia Pacific Pte. Ltd. • 3 International Business Park 07-18 Nordic European Centre • Singapore 609927 • TEL: +65 6899 0080

info-rohmax@evonik.com • www.rohmax.com