

VISCOPLEX® 10-930

A Viscosity Index Improver Recommended for Use in Environmentally Friendly Lubricants

A RohMax Product



Function

Viscosity index improver and pour point depressant for use in environmentally friendly hydraulic fluids based on biodegradable carriers, including vegetable oils and synthetic esters.

Performance

VISCOPLEX® 10-930 effectively lowers the pour point to -30 °C and provides storage stability even at extremely cold temperatures.

VISCOPLEX® 10-930 provides a very economic way of thickening with very high VI improvement.

Typical addition rate: 8.0 % wt for ISO VG 68, VI 237; KV 100 °C = 16 mm²/s.

Composition

VISCOPLEX® 10-930 is a viscous concentrate of poly-alkyl methacrylate in a biodegradable 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® 10-930 in straight mineral base oils is shown in Table 2.

VISCOPLEX® Series 10 Viscosity Index Improvers and Pour Point Depressants for Biodegradable Lubricants

Typical Physical Properties of VISCOPLEX® 10-930

Table 1

Visual Appearance	Clear, free of sediment
Color (ASTM D1500)	1.0
Viscosity at 100 °C, mm ² /s (ASTM D445)	1,218
Density at 15 °C, g/cm ³ (ASTM D4052)	0.954
Flash Point, °C (ASTM D3278)	140
Shear Stability Index (P-SSI) (ASTM D6278) 30 Passes	8
(ASTM D6278) 250 Passes	15
(ASTM D5621) Sonic Test (P-SSI/wt %)	–
(CEC L-45-A-99) KRL 20h (P-SSI/wt %)	–

Table 2 Thickening Effect of VISCOPLEX® 10-930 at 100 °C

	100 N			150 N			200 N			350 N		
	0	5	10	0	5	10	0	5	10	0	5	10
VISCOPLEX® 10-930, % wt												
Viscosity at 100 °C, mm ² /s	4.1	6.9	10.7	5.1	8.4	13.0	6.2	10.1	15.4	8.9	14.0	20.7

Density

The typical density of VISCOPLEX® 10-930, as a function of temperature, is given in Figure 1.

Bulk Viscosity

The bulk handling properties of VISCOPLEX® 10-930, as a function of temperature, are provided 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

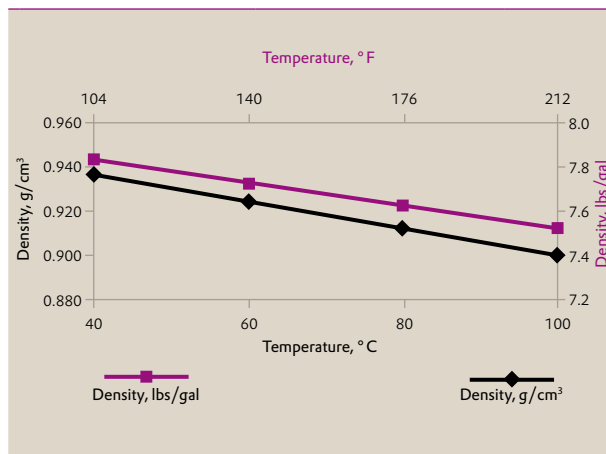
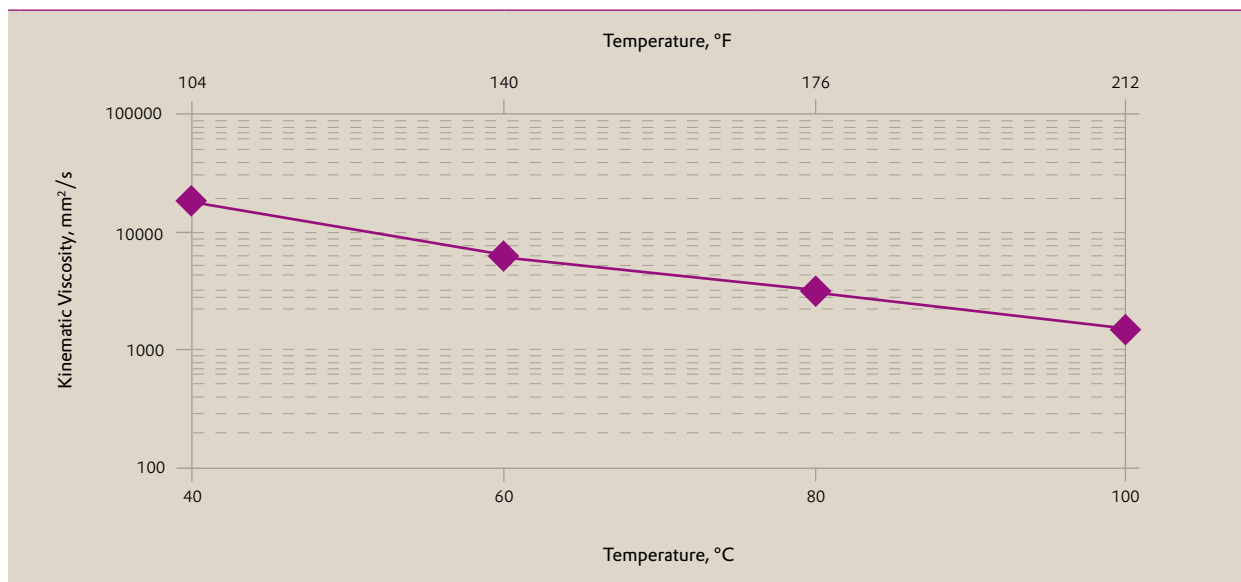


Figure 2 Kinematic Viscosity vs. Temperature



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