

VISCOPLEX® 8-954

An Efficient VI Improver for Tractor Hydraulic Lubricants

A RohMax Product



Function

Dispersant viscosity index improver.

Performance

VISCOPLEX® 8-954 is recommended by John Deere for use in JDM-J20B hydraulic/transmission tractor fluids. It allows formulators to meet the low-temperature requirements and shear stability specifications of John Deere.

VISCOPLEX® 8-954 offers high VI improvement and thickening efficiency.
Typical addition rate: 5% wt.

Composition

VISCOPLEX® 8-954 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® 8-954 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® 8-954

Visual Appearance	Clear to slightly hazy, pale yellow to amber viscous liquid
Color (ASTM D1500)	3
Viscosity at 100 °C, mm ² /s (ASTM D445)	1,250
Density at 15 °C, g/cm ³ (ASTM D4052)	0.90
Flash Point, °C (ASTM D3278)	>120
Shear Stability Index (P-SSI) (DIN 51382) 30 Passes	45
(DIN 51382) 250 Passes	56
(ASTM D5621) Sonic Test (P-SSI/wt %)	75/3.2
(CEC L-45-A-99) KRL 20h (P-SSI/wt %)	89/3.2

Table 2

Thickening Effect of VISCOPLEX® 8-954 at 100 °C

	100 N			150 N			200 N			350 N		
	0	5	10	0	5	10	0	5	10	0	5	10
VISCOPLEX® 8-954, % wt												
Viscosity at 100 °C, mm ² /s	4.0	7.3	12.0	5.1	9.2	14.9	6.2	10.9	17.6	8.9	15.0	23.4

Density

The typical density of VISCOPLEX® 8-954, as a function of temperature, is given in Figure 1.

Bulk Viscosity

The typical bulk viscosity of VISCOPLEX® 8-954, 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

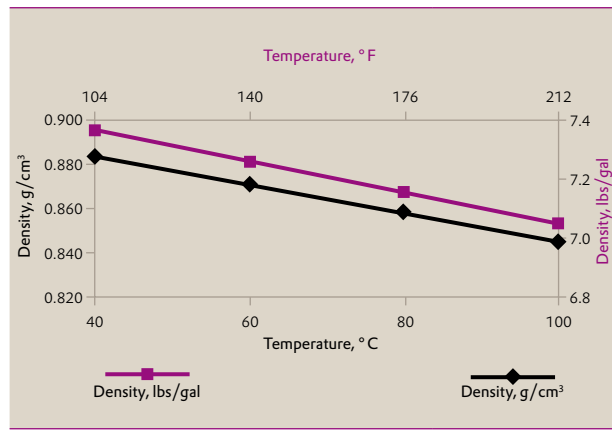
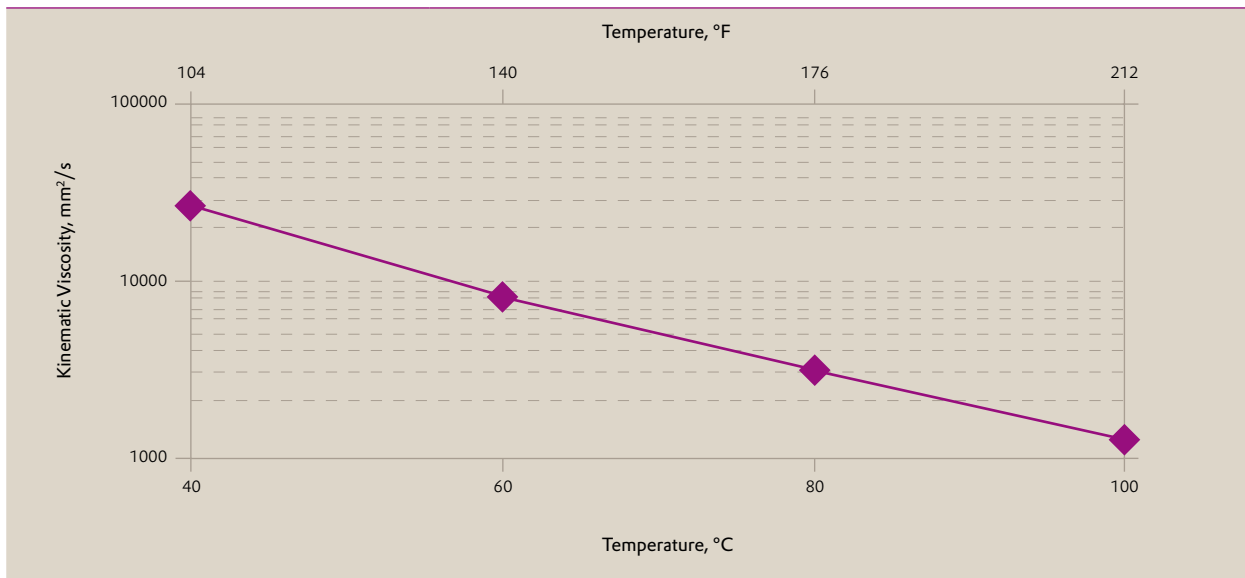


Figure 2

Kinematic Viscosity vs. Temperature



This information and all further technical advice is based on our present knowledge and experience. However, they imply no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of the customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

©03/2008 Evonik RohMax Additives GmbH.

VISCOPLEX® and VISCOBASE® are registered trademarks of Evonik RohMax Additives GmbH

Europe, Africa, Mideast:

Evonik RohMax Additives GmbH • Kirschenallee • 64293 Darmstadt • Germany • TEL: +49 61511809

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