

# VISCOPLEX® 12-113

A Shear-Stable Dispersant VI Improver for Automatic Transmission Fluids, Manual Transmission Fluids, and Continuously Variable Transmission Fluids

A RohMax Product



## Function

Dispersant viscosity index and low-temperature fluidity improver for automatic transmission fluids, manual transmission fluids, and similar highly demanding lubricant applications, including CVT fluids.

## Performance

Highly shear-stable, dispersant product designed for use in formulations based on nonconventional (e.g., hydro-cracked) and conventional base stocks. Provides excellent Brookfield viscosity performance.

## Composition

VISCOPLEX® 12-113 is a solution of dispersant polyalkyl methacrylate in highly refined mineral oil.

## Physical Data

Table 1 lists representative physical properties. (These do not constitute specifications.)

## Shear Stability and Thickening Efficiency

Table 2 provides shear stability and thickening efficiency data for VISCOPLEX® 12-113.

## VISCOPLEX® Series 12 Automatic Transmission Fluid Viscosity Index Improvers

Typical Physical Properties of VISCOPLEX® 12-113

Table 1

Visual Appearance	Clear to slightly hazy
Color (ASTM D1500)	0.5
Viscosity at 100 °C, mm <sup>2</sup> /s (ASTM D445)	400
Density at 15 °C, g/cm <sup>3</sup> (ASTM D4052)	0.93
Flash Point, °C (ASTM D3278)	120

Table 2

Thickening Efficiency, 10% in RMF 5, at 100 °C, mm <sup>2</sup> /s	8.71
KRL, 20 hour, (CEC L-45-A-99), % Viscosity Loss	14.2
KRL, 20 hour (CEC L-45-A-99), Shear Stability Index	38

### Density

The typical density of VISCOPLEX® 12-113, as a function of temperature, is given in Figure 1.

### Bulk Viscosity

The typical bulk viscosity of VISCOPLEX® 12-113, 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](http://www.rohmax.com).

Figure 1 Density vs. Temperature

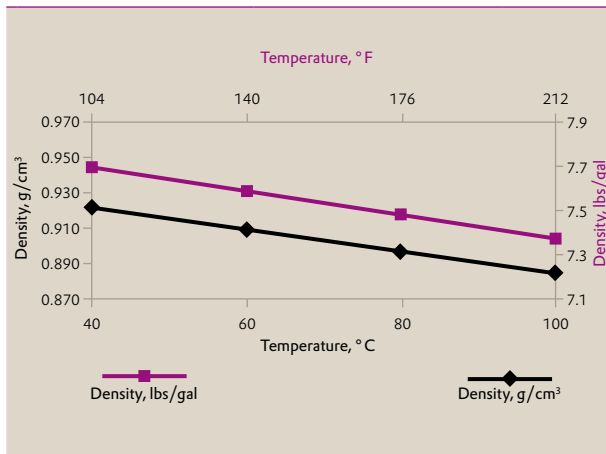
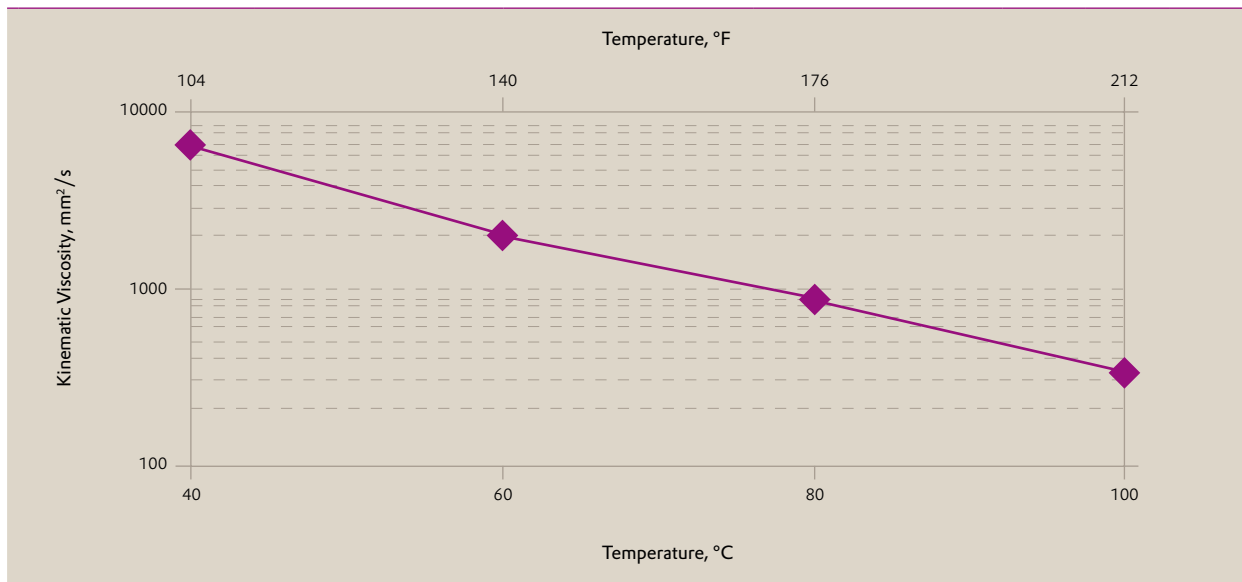


Figure 2 Kinematic Viscosity vs. Temperature



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.

©05/2008 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](mailto:info-rohmax@evonik.com) • [www.rohmax.com](http://www.rohmax.com)

