

# VISCOPLEX® 0-400

A Shear-Stable VI Improver for Multigrade Gear Lubricants

A RohMax Product



## Function

Viscosity index and low-temperature fluidity improver for multigrade gear oils.

## Performance

VISCOPLEX® 0-400 is a multipurpose viscosity index improver for automotive gear oils. Depending on base oil composition, VISCOPLEX® 0-400 allows blending of cost-effective multigrade gear oils such as SAE 75W-90, SAE 75W-80, SAE 75W-85 and SAE 80W-140.

## Composition

VISCOPLEX® 0-400 is a viscous concentrate of polyalkyl methacrylate (PAMA) in a solvent-refined 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® 0-400 in straight mineral base oils is shown in Table 2.

## VISCOPLEX® Series 0 Gear Oil Viscosity Index Improvers

Table 1

### Typical Physical Properties of VISCOPLEX® 0-400

Visual Appearance	Clear
Color (ASTM D1500)	2
Viscosity at 100 °C, mm <sup>2</sup> /s (ASTM D445)	530
Density at 15 °C, g/cm <sup>3</sup> (ASTM D4052)	0.94
Flash Point, °C (ASTM D3278)	130
Shear Stability Index (P-SSI) KRL, 20 hour (CEC L-45-A-99)	66
Shear Stability Index (P-SSI) (DIN 51382, ASTM D3945)	10

Table 2 Thickening Effect of VISCOPLEX® 0-400 at 100 °C

	100 N			150 N			200 N			350 N		
VISCOPLEX® 0-400, % wt	0	10	20	0	10	20	0	10	20	0	10	20
Viscosity at 100 °C, mm <sup>2</sup> /s	4.0	8.2	14.5	5.1	10.3	17.9	6.2	12.2	21.0	8.9	16.6	27.8

### Density

The typical density of VISCOPLEX® 0-400, as a function of temperature, is given in Figure 1.

### Bulk Viscosity

The typical bulk viscosity of VISCOPLEX® 0-400, 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

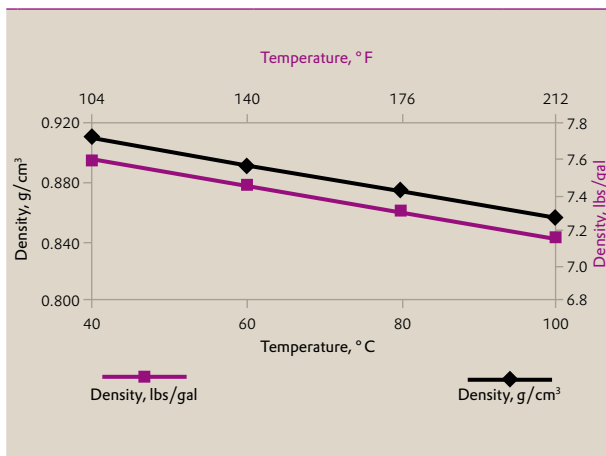
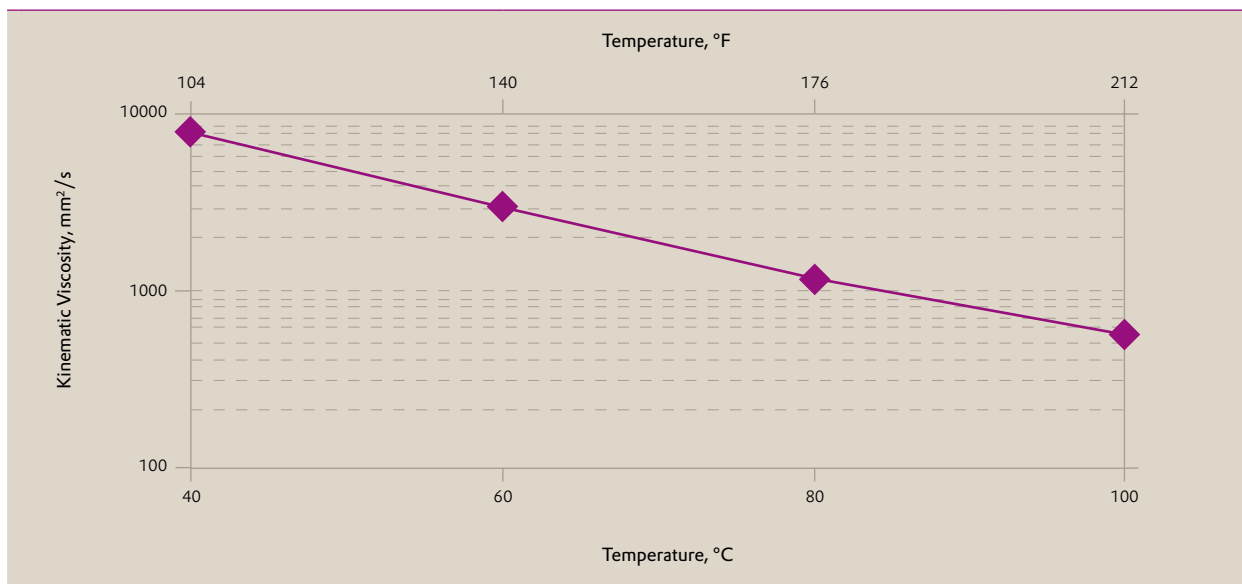


Figure 2 Kinematic Viscosity vs. Temperature



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