

VISCOPLEX® 10-305

A Pour Point Depressant and Low-Temperature Fluidity Improver for Use in Environmentally Compatible Automotive Fluids.

A RohMax Product 

Function

VISCOPLEX® 10-305 is a pour point depressant and low-temperature fluidity improver with activity in a wide range of fluid types including vegetable oil esters such as rapeseed methyl ester (RME) and vegetable oil ester blends which include palm oil methyl ester (POME).

Performance

VISCOPLEX® 10-305 when used on its own at treat rates of 0.5 %-1.0 % can often give significant improvements in CFPP (DIN EN 116) and pour point (ASTM D97) for many vegetable oil esters or blends which include vegetable oil ester(s).

VISCOPLEX® 10-305 can also be used alongside other low temperature booster additives where a synergistic effect may be apparent.

In all cases the actual performance of VISCOPLEX® 10-305 and treat rate employed is dependent on a number of factors such as vegetable oil ester quality, presence of other additives and ester mix used and so needs to be quantified in each case.

Up to dosages of approximately 4%, VISCOPLEX® 10-305 effects only a slight increase in the kinematic viscosity (of RME).

Composition

VISCOPLEX® 10-305 is a solution of polyalkyl methacrylate (PAMA) in a highly refined carrier oil. For handling, storage and safety aspects see additional information.

Physical Data

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

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

Table 1 Typical Physical Properties of VISCOPLEX® 10-305

Visual Appearance	Viscous, clear and yellowish
Color (ASTM D1500)	0.5
Viscosity at 100 °C, mm ² /s (ASTM D445)	210
Density at 15 °C, g/cm ³ (ASTM D4052)	0.93
Flash Point, °C (ASTM D3278)	>100

Density

The typical density of VISCOPLEX® 10-305, as a function of temperature, is given in Figure 1.

Bulk Viscosity

The bulk handling properties of VISCOPLEX® 10-305, 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

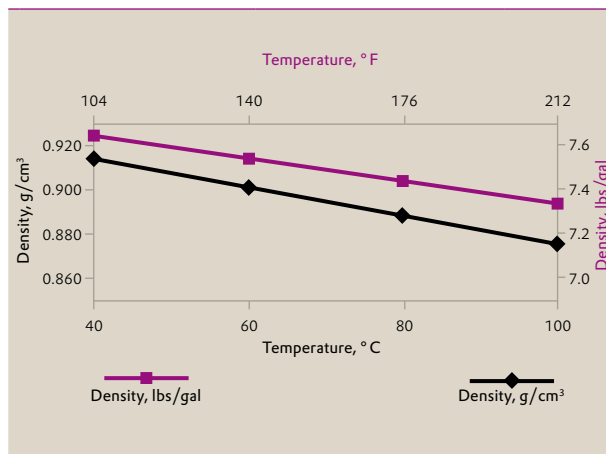
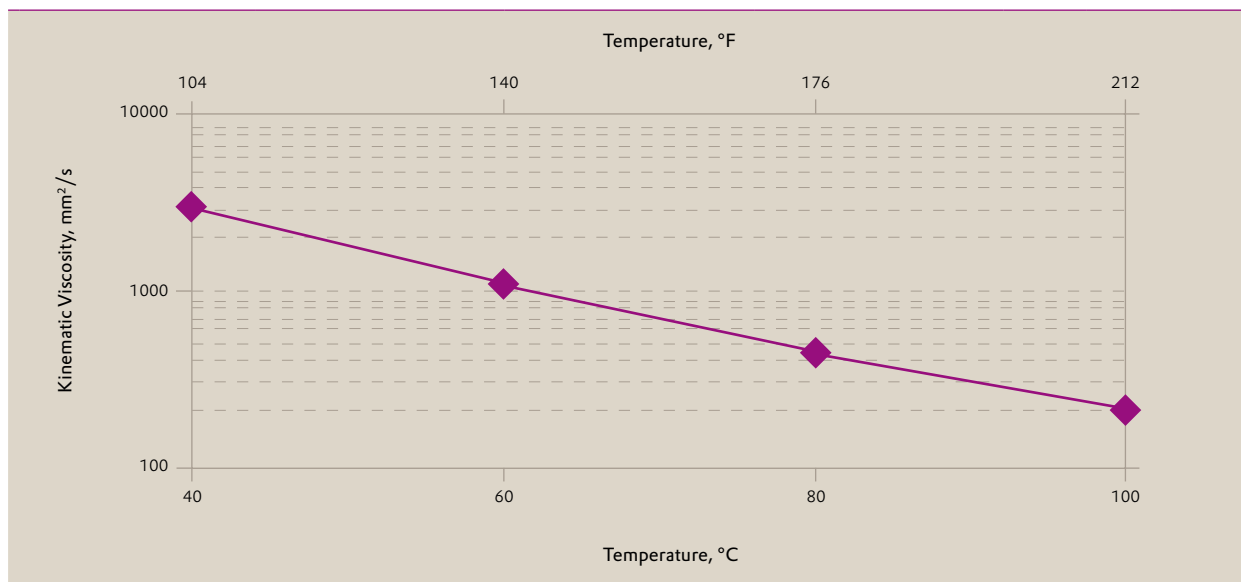


Figure 2 Kinematic Viscosity vs. Temperature



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