

# VISCOPEX® 10-330

## Cold Flow Improver for Biodiesel Fuel

### Function

VISCOPEX® 10-330 is a flow improver with activity in a wide range of fluid types including vegetable oil esters such as palm oil methyl ester (PME), soy bean oil methyl ester (SME) and animal fat derived methyl esters i.e. tallow methyl ester (TME) and blends thereof.

### Performance

VISCOPEX® 10-330 effectively lowers cold filter plugging point, cloud point and pour point of natural oil and fat based esters which are used as biodiesel fuel. It also retains efficacy in blends of bio and fossil diesel. Furthermore VISCOPEX® 10-330 is manufactured for optimized filterability.

In all cases the actual performance of VISCOPEX® 10-330 and optimum treat rate is dependent on a number of factors such as the vegetable/animal oil ester quality and the chemical composition of the fatty acid ester mixture in the fuel.

Typical addition rates vary from 0.1 % to 1.0 % by weight.

### Composition

VISCOPEX® 10-330 is a viscous concentrate of polyalkyl methacrylate in a highly refined carrier oil.

### Physical Data

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

### Dosage/Blending

VISCOPEX® 10-330 shall be added to the fuel at temperatures well above the fuels cloud point. The dosage can be done inline when fuel is pumped through pipes from one tank into another or to the loading station or directly in a tank if the tank volume can be adequately mixed. In any case the additive has to be mixed with the fuel at min. 10°C above the fuels cloud point.

### VISCOPEX® Series 10 Viscosity Modifiers for bio-degradable Lubricants and Flow Improvers for Biofuels

**Table 1** Typical Physical Properties of VISCOPEX® 10-330

Visual Appearance	Viscous, clear and yellowish
Color (ASTM D1500)	0.5
Viscosity at 100 °C, mm <sup>2</sup> /s (ASTM D445)	130
Viscosity at 40 °C, mm <sup>2</sup> /s (ASTM D445)	1550
Density at 15 °C, g/cm <sup>3</sup> (ASTM D4052)	0.91
Flash Point, °C (ASTM D3278)	>80

## Density

The typical density of VISCOPLEX® 10-330, as a function of temperature, is given in Figure 1.

## Bulk Viscosity

The bulk handling properties of VISCOPLEX® 10-330, 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](http://www.rohmax.com).

Figure 1 Density vs. Temperature

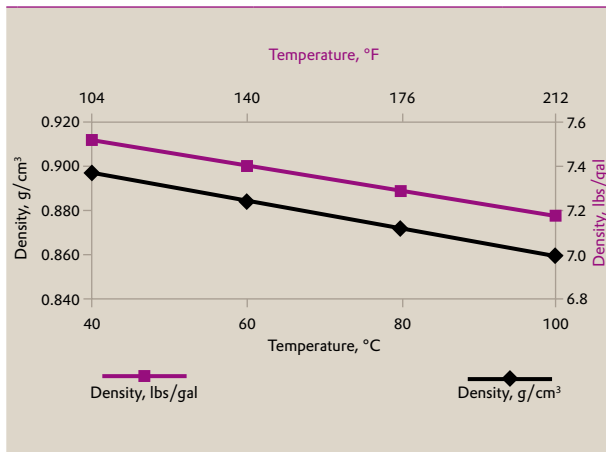
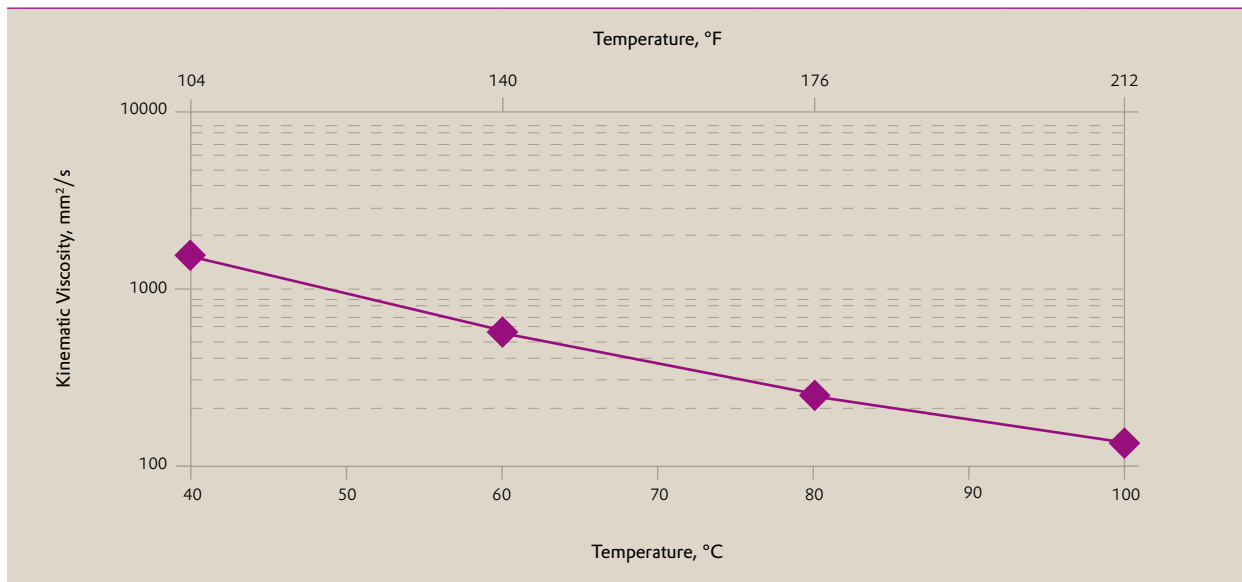


Figure 2 Kinematic Viscosity vs. Temperature



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