

MATSUMURA OIL CO., LTD. J0130002B(E)

# **BARREL THERM 300,400**

BARREL THERM 300,400 are synthetic heat transfer fluids that can be used at high temperatures. It can be used in liquid phase circulation up to a permissible film temperature of 370°C.

### 1. Features

## (1) Excellent thermal stability.

Heat transfer fluid undergoes thermal decomposition when it reaches a certain temperature. It will also gradually deteriorate after prolonged use. For this reason, it is necessary to select a heat transfer fluid with high thermal stability. BARREL THERM 300,400 are heat transfer fluids with high thermal stability that can be used for liquid phase circulation up to a maximum permissible film temperature of 370°C.

### (2) Not corrosive.

BARREL THERM 300,400 has little corrosiveness to iron and nonferrous metal materials used in general industrial equipment.

Property		BARREL THERM 300	BARREL THERM 400
Min. Temp. °C		-5	-10
Max. Temp.	Bulk °C	340	340
	Film °C	370	370
Density 15°C g/cm <sup>3</sup>		1.02	1.05
Flash Point (COC) °C		170	210
Pour Point °C		<-10 *	<-20
Kinematic Viscosity 40°C mm <sup>2</sup> /s		22	18
Kinematic Viscosity 100°C mm²/s		3.3	3.1
Average Molecular Weight		236	270
Thermal Expansion Coefficient 1/°C		9.5×10 <sup>-4</sup>	8.6×10 <sup>-4</sup>
Boiling Point °C		344	390
Autoignition temp.	°C	390	495

## 2. Typical properties

\*In winter, part of ingredients may solidify. But there is no problem in performance.

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BARREL THERM is registered trademark of Matsumura Oil Co., Ltd.

When using this product, please confirm the precautions for handling and storage, first aid, disposal, and other precautions in the Safety Data Sheet (SDS)
Please contact the head office of Matsumura Oil Co., Ltd. if you wish to reprint this document.

<sup>•</sup> The data in this document are not standard values. The data described in this document are not standard values and are subject to change without notice due to product improvements or specification changes.

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