

## **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.

### 2. Typical properties

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	mm <sup>2</sup> /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

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

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