

## **BARREL THERM 390**

BARREL THERM 390 is a synthetic heat transfer fluid for high temperatures with a narrow boiling point range. It can be used in gas or liquid phase circulation up to a film temperature of 380°C. It can also be used as a freezing point depressant for BARREL THERM 330.

### 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 390 is a heat transfer fluid with high thermal stability that can be used for gas phase or liquid phase circulation up to a high temperature range with a maximum permissible film temperature of 380°C or higher.

(2) Not corrosive.

BARREL THERM 390 has little corrosiveness to iron and nonferrous metal materials used in general industrial equipment.

(3) Can be used as a freezing point depressant.

Adding an appropriate amount to BARREL THERM 330, which has a freezing point of 12°C, lowers the freezing point to below 0°C, making it possible to use and store it during the winter.

### 2. Typical properties

Property		BARREL THERM 390
Min. Temp.	°C	-10
Max. Temp.	Bulk °C	350
	Film °C	380
Density 15°C	g/cm <sup>3</sup>	0.98
Flash Point (COC)	°C	120
Freezing Point	°C	-10
Kinematic Viscosity 40°C	mm <sup>2</sup> /s	2.5
Kinematic Viscosity 100°C	mm <sup>2</sup> /s	0.97
Average Molecular Weight		170
Thermal Expansion Coefficient	1/°C	1.0×10 <sup>-3</sup>
Boiling Point	°C	269
Autoignition temp.	°C	440

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