

BARREL THERM PA,330,430

BARREL THERM PA, 330, 430 are synthetic heat transfer fluids with a narrow boiling point range. These heat transfer fluids are suitable for use from ultra-low temperature to high temperature.

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 PA, 330, 430 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 360°C or higher.

(2) Not corrosive.

BARREL THERM PA, 330, 430 has little corrosiveness to iron and nonferrous metal materials used in general industrial equipment.

2. Typical properties

Property		BARREL THERM		
		PA	330	430
Min. Temp.	°C	-70	12	-50*
Max. Temp.	Bulk °C	260	370	340
	Film °C	360	400	370
Density 15°C	g/cm ³	0.863	1.07	1.00
Flash Point (COC)	°C	51(TAG)	124	134
Pour Point	°C	<-70	12(Freezing Point)	<-60
Kinematic Viscosity 40°C	mm ² /s	0.82	2.5	2.6
Kinematic Viscosity 100°C	mm ² /s	0.49	0.98	1.1
Average Molecular Weight		134	166	186
Thermal Expansion Coefficient	1/°C	9.6×10 ⁻⁴	13×10 ⁻⁴	9.0×10 ⁻⁴
Boiling Point	°C	176	257	291
Autoignition temp.	°C	436	621	495

*When used as a cooling application, part of ingredients may solidify. Be sure to contact Matsumura Oil Co., Ltd. When considering.

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