

BARREL THERM 1H,2H,350,450

BARREL THERM 1H, 2H, 350 and 450 are synthetic heat transfer fluids with excellent low temperature fluidity. They are suitable for heat transfer fluids from 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 1H, 2H, 350 and 450 are heat transfer fluids with high thermal stability that can be used for liquid phase circulation up to a high temperature range with a maximum permissible film temperature of 320°C or higher.

(2) Excellent low-temperature fluidity.

BARREL THERM 1H, 2H, 350 and 450 are energy-saving heat transfer fluids that can be used as a cooling medium and in a wide range of temperatures because it has a low viscosity at low temperatures.

(3) Not corrosive.

BARREL THERM 1H, 2H, 350 and 450 have little corrosiveness to iron and nonferrous metal materials used in general industrial equipment.

2. Typical properties

Property		BARREL THERM			
		1H	2H	350	450
Min. Temp.	°C	-50	-30	-30	-40
Max. Temp.	Bulk °C	200	280	320	340
	Film °C	320	320	350	370
Density 15°C	g/cm ³	0.807	0.862	0.989	1.01
Flash Point (COC)	°C	92	140	150	140
Pour Point	°C	<-70	-70	-50	<-50
Kinematic Viscosity 40°C	mm ² /s	2.7	4.4	5.2	3.3
Kinematic Viscosity 100°C	mm ² /s	1.1	1.5	1.5	1.3
Average Molecular Weight		210	246	210	205
Thermal Expansion Coefficient	1/°C	8.9×10 ⁻⁴	7.9×10 ⁻⁴	9.5×10 ⁻⁴	8.9×10 ⁻⁴
Boiling Point	°C	215	294	302	300
Autoignition temp.	°C	310	395	425	495

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