

## BARREL SILICONE FLUID ST

BARREL SILICONE FLUID ST is a modified silicone fluid with the highest heat resistance of all organic heat transfer fluids, and can be used in liquid phase circulation up to a permissible film temperature of 427°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 SILICONE FLUID ST is a heat transfer fluid with excellent thermal stability that can be used in liquid phase circulation up to a maximum permissible film temperature of 427°C. Since the heat transfer fluid will oxidize and deteriorate when exposed to air at high temperatures, it is necessary to use an inert gas seal in the expansion tank or avoid air contact at high temperatures.

(2) Excellent low temperature fluidity.

BARREL SILICONE FLUID ST can be used in a wide range of temperatures, with normal circulation at -40°C.

(3) Non-contaminating.

BARREL SILICONE FLUID ST does not cause carbide precipitation or deposition due to thermal deterioration, so there is no equipment contamination.

(4) Not corrosive.

BARREL SILICONE FLUID ST has little corrosiveness to iron and nonferrous metal materials used in general industrial equipment.

(5) Low toxicity.

(6) Low odor.

### 2. Typical properties

Property	BARREL SILICONE FLUID ST
Appearance	Light yellow clear
Density 25°C	kg/m <sup>3</sup> 935
Flash Point (COC)	°C 178
Pour Point	°C -65
Kinematic Viscosity 25°C	mm <sup>2</sup> /s 10
Average Molecular Weight	1000
Boiling Point	°C 354
Autoignition temp.	°C 405

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