

MATSUMURA OIL CO., LTD. SP000001A(E)

BARREL SILICONE FLUID P SERIES

Phenyl-based cold and heat resistant oil

BARREL SILICONE FLUID P SERIES are colorless clear liquid with a methylphenylpolysiloxane structure and has excellent thermal stability and oxidative stability.

In addition, since it has a low pour point and low vapor pressure, it can be used for heat transfer fluids, braking liquids, lubricating liquids, etc.

1. Features

(1) Colorless clear liquid.

(2) High viscosity index and small change in viscosity with temperature.

(3) High flash point and flame retardant.

(4) Vapor pressure is very low and evaporation is small.

(5) Excellent thermal stability and oxidative stability.

(6) Excellent in shear stability.

(7) Low surface tension.

(8) High water repellency.

(9) Low toxicity.

(10) Tasteless and odorless.

(11) Chemically inert.

2. Typical properties

Property		BARREL SILICONE FLUID	
		P-100	P-400
Max. Temp. (Open system)	°C	200	260
Appearance		Colorless clear	Colorless clear
Density 25°C	kg/m³	992	1070
Flash Point (COC)	°C	>300	>315
Pour Point	°C	<-60	<-30
Kinematic Viscosity 25°C	mm²/s	100	400
Acid Number	mgKOH/g	0.01	0.01
Surface Tension 25°C	mN/m	24	25
Refractive Index 25°C		1.425	1.505
Viscosity Temperature Coefficient		0.62	0.82
Thermal Expansion Coefficient 1/°C		9.6×10 ⁻⁴	7.3×10 ⁻⁴
Autoignition Temp.	°C	482	Approx. 400

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