

Armcoltherm® Si-2/Si-5/Si-10/Si-50

Silicone oil usually refers to the linear polysiloxane products that keep liquid state at room temperature. It is generally divided into methyl silicone oil and modified silicone oil. Methyl silicone oil, the most commonly used silicone oil, is also known as common silicone oil. Its organic groups are all methyl. Methyl silicone oil has good chemical stability, insulation and hydrophobicity.

Property	Unit	Si-2	Si-5	Si- 10	Si-50
Appearance		clear liquid			
composition		polydimethylsiloxane			
Density @20°C	kg/m ³	875	919	937	963
Flash point	°C	90	126	178	292
pour point	°C	- 125	- 95	-80	-61
Autoignition temperature	°C	325	365	367	406
Distillation 10%	°C	222	275	328	232
Distillation 50%	°C	224	319	384	31 5
viscosity, kinematic @ - 120°C	mm ² /s	129.7	-	-	-
viscosity, kinematic @ -110 °C	mm ² /s	95.65	-	-	-
viscosity, kinematic @ - 100°C	mm ² /s	69.15	-	-	-
viscosity, kinematic @ - 90 °C	mm ² /s	48.21	295.4	-	-
viscosity, kinematic @ - 8 o °C	mm ² /s	35.56	151.2	317.5	-
viscosity, kinematic @ - 7 o °C	mm ² /s	24.85	94.02	205 .2	-

viscosity, kinematic @ - 60 °C	mm ² /s	16.78	64.82	119.5	645.3
viscosity, kinematic @ - 50 °C	mm ² /s	12.74	43.12	82.21	460.1
viscosity, kinematic @ - 40 °C	mm ² /s	9.514	30.17	55.14	323.6
viscosity, kinematic @ - 30 °C	mm ² /s	7.227	22.37	39.19	224.5
viscosity, kinematic @ - 20 °C	mm ² /s	6.319	17.21	30.16	156.6
viscosity, kinematic @ - 10 °C	mm ² /s	5.274	13.79	22.91	117.1
viscosity, kinematic @ 0 °C	mm ² /s	4.424	11.39	18.14	92.49
viscosity, kinematic @ 40 °C	mm ² /s	1.705	4.198	7.266	38.31
Liquid heat capacity @200 °C	KJ/kg.k	2.30	2.11	1.92	1.89
Liquid thermal conductivity @200 °C	W/m.k	0.073	0.085	0.092	0.101
Vapor pressured@200 °C	kpa	40.5	3.9	0.25	28.5
operating temperature range	°C	- 120 ~ 300	- 90 ~ 300	-80 ~300	-40 ~300

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