

sigma THERM[®] - Z

(-20) °C TO 280 °C

Single Fluid for
Heating and Cooling



Description:

sigma THERM® - Z is a Heat Transfer Fluid used in Single Fluid Heating and Cooling applications based on Alkylated Aromatic.

Application :

Indirect closed heat transfer systems : (– 20) °C to 280 °C
 Without pressurization : up to 130 °C
 With proper pressurization : up to 280°C.

This single fluid caters the dual demand heating and cooling in Pharmaceutical, Fine Chemicals and other industries.

Benefits :

- Simplifies by eliminating multiple fluids for heating and cooling.
- Engineered for Longevity and lasting performance.
- Cost optimised Solution for maximum value.
- Effortless operations with minimum maintenance.
- It serves as a superior alternative to conventional dual steam & glycol or steam & brine systems.

Compatibility :

Gasket Material : **sigma THERM® - Z** has an acceptable compatibility when used within the temperature and pressure limitation of the following polymers or gasketing materials:

Acetal, Aramid Fiber, Chemraz (FFKM), Epoxy, Fluorocarbon (FILM), Fluoroelastomer, Glass Fiber, Gylon, Kalrez, PEEK, PTFE, Teflon (All) , PTFE Silicon, PTFE Viton, PTFE Fiberglass, Kel-F (CTFE), Viton

Metal : **sigma THERM® - Z** is compatible with all metals.

Typical Properties :

Composition	Synthetic Aromatic
Appearance	Water White
Max. Bulk Temperature, °C	280
Max. Film Temperature, °C	300
Kin. Vis. @ 40 °C, cSt	0.6
Pour Point, °C	(-)26
Specific Gravity @ 20 °C	0.88
Auto Ignition Temp. °C	Above 450
Boiling Point °C	145
Flash Point °C	32

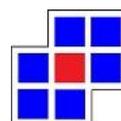
Packing :

210 Ltrs

Shreyas Petroleum Additives Limited

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Temperature	Density	Specific Heat	Thermal Conductivity	Kinematic Viscosity	Vapour Pressure
°C	Kg/m ³	kJ/Kg °K	W/m·K	cSt	kPa
-20	883	1.600	0.133	1.75	-
-10	890	1.636	0.131	1.44	-
0	897	1.673	0.129	1.19	-
10	890	1.710	0.127	1.02	-
20	883	1.747	0.125	0.88	0.60
30	875	1.783	0.122	0.77	1.00
40	868	1.819	0.120	0.68	1.75
50	860	1.855	0.118	0.61	3.00
60	853	1.891	0.116	0.54	4.80
70	845	1.925	0.114	0.49	7.80
80	837	1.961	0.112	0.46	11.5
90	830	1.996	0.110	0.42	17
100	821	2.030	0.108	0.39	25
110	813	2.065	0.106	0.36	35
120	805	2.099	0.104	0.34	49
130	797	2.134	0.102	0.32	68
140	788	2.168	0.100	0.30	88
150	780	2.202	0.098	0.28	115
160	771	2.236	0.096	0.27	145
170	762	2.270	0.094	0.26	185
180	753	2.304	0.092	0.24	235
190	744	2.338	0.090	0.23	300
200	734	2.372	0.088	0.22	360
210	725	2.407	0.085	0.22	450
220	715	2.441	0.083	0.21	530
230	704	2.477	0.081	0.20	640
240	694	2.514	0.079	0.19	750
250	683	2.552	0.077	0.19	900
260	672	2.593	0.075	0.18	1050
270	661	2.635	0.073	0.17	1200
280	649	2.682	0.071	0.17	1450

Note : Above data is for reference only

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