

Single Fluid for Cooling and Heating

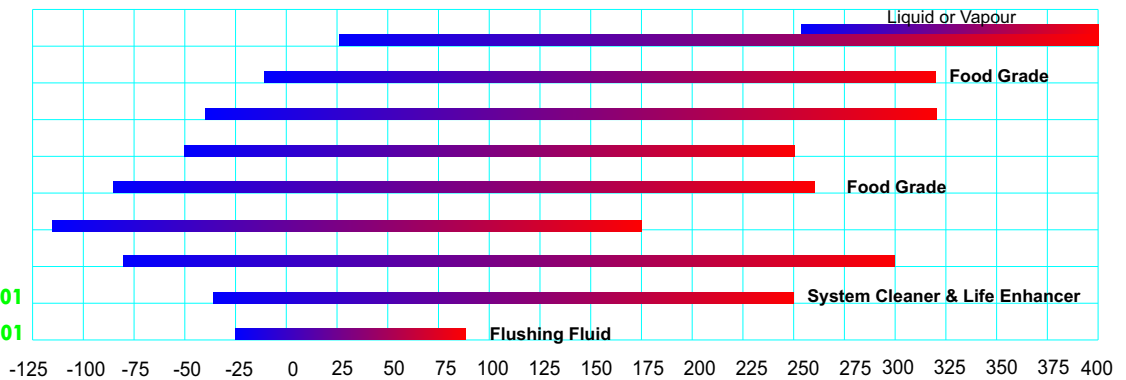
-115 °C to 175 °C

sigma THERM[®] - V

Synthetic Thermic Fluid

Thermic Fluid and other Speciality Range

- sigma THERM[®] - A
- sigma THERM[®] - F
- sigma THERM[®] - K
- sigma THERM[®] - N
- sigma THERM[®] - P
- sigma THERM[®] - V
- sigma THERM[®] - S
- sigma THERM[®] - FF 101
- sigma THERM[®] - FF 201



← Operating Temp. Range in Deg. Cent. →

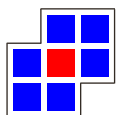
www.sigma-therm.com



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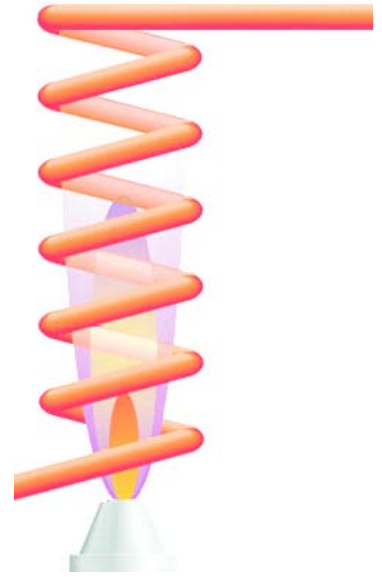
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Description :

sigma THERM[®] - V is a ultra low temperature heat transfer fluid for Single Fluid Heating and Cooling System.

Application :

Indirect closed heat transfer systems from - 115 °C to 175 °C. It has got boiling point of 99°C. For higher operating temperature care should be taken for proper design of system. It is highly recommended to use Nitrogen Blanketing in expansion tank. Pressure release devices should be provided at appropriate places.



Benefits :

- Eliminates dual fluids for heating and cooling.
- Long Life.
- Cost Effective Solution
- Trouble free operation

SYNTHETIC

Typical Properties :

Composition	Mixture
Appearance	Water White
Max. Bulk Temperature, ° C	175
Max. Film Temperature, ° C	210
Kin. Vis. @ 40°C, cSt	0.7
Pour Point , ° C	(-135
Specific Gravity @ 20 ° C	0.75
Auto Ignition Temp. °C (DIN 51794)	295
Boiling Point °C	99
Flash Point °C, Closed Cup	(-7

Packing : 200 liters

Temp	Density	Specific Heat	Heat of Vaporisation	Liquid Enthalpy	Thermal Conductivity	Kin. Vis	Vapour Pressure
°C	Kg/m ³	KJ/Kg K	KJ/Kg	KJ/Kg	W/m K	cSt	kPa
-135	882	1.30	425	-22.6	0.1354	400	-
-130	878	1.32	423	-16.14	0.1345	218	-
-120	870	1.36	418	-2.97	0.1326	79.50	-
-110	861	1.41	414	11	0.1307	35.74	-
-100	853	1.45	409	25	0.1289	18.81	-
-90	845	1.49	404	39	0.1270	11.19	-
-80	837	1.54	399	54	0.1250	7.2	0.002
-70	828	1.58	394	69	0.1230	5.0	0.006
-60	820	1.63	389	85	0.1211	3.7	0.018
-50	812	1.67	384	101	0.1191	2.9	0.049
-40	803	1.71	379	118	0.1171	2.3	0.118
-30	795	1.75	374	135	0.1150	1.9	0.261
-20	787	1.80	369	153	0.1130	1.5	0.537
-10	778	1.84	364	170	0.1109	1.3	1.03
0	770	1.88	359	189	0.1089	1.1	1.88
10	761	1.92	354	208	0.1068	0.99	3.26
20	752	1.97	349	227	0.1046	0.87	5.40
30	744	2.01	343	246	0.1024	0.78	8.61
40	735	2.05	338	266	0.1003	0.70	13.27
50	726	2.09	333	287	0.0981	0.63	19.80
60	717	2.13	327	307	0.0958	0.57	28.81
70	708	2.17	322	329	0.0935	0.52	40.89
80	698	2.21	316	350	0.0912	0.48	56.63
90	689	2.26	310	372	0.0889	0.44	77.02
100	679	2.30	304	395	0.0865	0.405	103
110	669	2.34	298	417	0.0840	0.374	135
120	660	2.38	292	441	0.0816	0.347	174
130	649	2.42	286	464	0.0791	0.323	222
140	639	2.46	279	489	0.0766	0.301	278
150	629	2.51	272	513	0.0739	0.280	346
160	618	2.55	265	538	0.0713	0.262	425
170	606	2.60	258	563	0.0686	0.247	516
180	595	2.64	250	589	0.0658	0.232	622

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