

The background of the entire page is a blue-tinted image of a molecular structure, possibly a protein or a complex polymer, with various spheres and connecting rods. The top of the page features a white curved banner with a grid of small dots. The logo 'sigmaTHERM® - H' is prominently displayed in the upper right, with 'sigma' in blue, 'THERM' in green, and 'H' in red. Below the logo, the temperature range '(-150) °C TO 100 °C' is written in black. Further down, the text 'Single Fluid for Heating and Cooling' is centered in a smaller black font. At the bottom left, the website address 'www.sigma-therm.com' is provided in a dark blue font. The overall design is clean and professional, emphasizing the scientific nature of the product.

sigmaTHERM® - H

(-150) °C TO 100 °C

Single Fluid for
Heating and Cooling

Description:

sigma THERM®- H is a Heat Transfer Fluid used in Single Fluid Heating and Cooling applications.

Application :

Indirect closed heat transfer systems : (- 150) °C to 100 °C
 Without pressurization : up to 30 °C
 With proper pressurization : up to 100°C.

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

Formulation of sigma THERM®- H is based on ingredients that are generally regarded as safe for human.

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®- H 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®- H is compatible with all metals.

Plastic : sigma THERM®- H is compatible with Polyethylene and Polypropylene. Check temperature suitability with supplier.

Typical Properties :

Appearance	Clear Water White
Colour (Saybolt)	+30
Max. Bulk Temperature, °C	100
Max. Film Temperature, °C	125
Kin. Vis. @ 40 °C, cSt	0.37
Pour Point , °C	< (- 150)
Density @ 30 °C, g/cm ³	0.644
Auto Ignition Temp. °C	> 260
Flash Point °C, ASTM D 93	(-30)
Vapour Pressure @ 20 °C, kPa	23
Normal Boiling Point °C	60
Total Acidity, mgKOH/g	< 0.2
Copper Corrosion	< 1a

Packing : 200 Ltrs

Temperature	Density	Specific Heat	Thermal Conductivity	Kinematic Viscosity	Vapour Pressure
°C	Kg/m ³	kJ/Kg °K	W/m-K	cSt	kPa
-150	804	1.768	0.1468	23.5	0.00
-140	794	1.755	0.1466	12.0	0.00
-130	785	1.751	0.1458	7.13	0.00
-120	776	1.754	0.1446	4.66	0.00
-110	767	1.763	0.1430	3.28	0.00
-100	758	1.778	0.1411	2.44	0.00
-90	749	1.798	0.1389	1.89	0.01
-80	740	1.822	0.1364	1.52	0.02
-70	732	1.850	0.1338	1.26	0.06
-60	723	1.882	0.1310	1.07	0.15
-50	715	1.916	0.1281	0.92	0.35
-40	706	1.953	0.1251	0.81	0.77
-30	697	1.992	0.1220	0.71	1.55
-20	689	2.033	0.1189	0.64	2.94
-10	680	2.076	0.1157	0.58	5.26
0	671	2.120	0.1125	0.52	8.96
10	662	2.165	0.1093	0.48	14.6
20	653	2.212	0.1062	0.44	22.9
30	644	2.260	0.1031	0.40	34.6
40	635	2.309	0.1000	0.37	50.7
50	625	2.359	0.0970	0.35	72.3
60	615	2.410	0.0941	0.32	101
70	605	2.463	0.0913	0.30	137
80	595	2.518	0.0886	0.28	183
90	584	2.574	0.0859	0.26	239
100	573	2.633	0.0834	0.25	309

Note : Above data is for reference only

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Shreyas Petroleum Additives Limited

1008, Times Square Arcade, Thaltej – Shilaj
Road, Thaltej , Ahmedabad 380 059 INDIA
www.sigma-therm.com

Tel : (91-79) – 2970 4454
4801 1511

E Mail : support@shreyas.in

