

The image features a background of a blue-tinted molecular structure with translucent spheres and connecting rods. A dark teal curved line separates the top white section from the rest of the image. The logo 'sigmaTHERM® - F' is positioned in the top right, with 'sigma' in blue, 'THERM' in green, and '- F' in red. Below the logo, the temperature range '(-10) °C TO 320 °C' is written in black. Further down, the text 'Food Grade Heat Transfer Fluid' is displayed in a smaller black font. The website address 'www.sigma-therm.com' is located at the bottom left.

sigmaTHERM® - F

(-10) °C TO 320 °C

Food Grade
Heat Transfer Fluid

www.sigma-therm.com

Description :

sigma THERM® - F is a thermally stable Food Grade heat transfer fluid.



Application :

Indirect closed heat transfer systems : 0 °C to 320 °C

Non Food Compounds
Program Listed (HT1)
Reg. No. 145290

It is recommended to use as a heat transfer media in all types of Food and Pharma industries like Edible Oil Refinery, Spices, Herbs, Namkeen, Sweets, Restaurants, Bakery, Dairy, Confectionery items, Distillery, etc

Formulation of **sigma THERM® - F** is based on all ingredients complies with US FDA, chapter 21 CFR, 178.3570 , HT1 category.

Benefits :

- High Thermal Stability.
- High Specific Heat
- Very low carbon deposits.
- Low Volatility

sigma THERM® - F meets highest safety standers for food industries and fit perfectly in HACCP (Hazard Analysis and Critical Control Point) and GMP (Good Manufacturing Practice) plans.

Metal Compatibility:

sigma THERM® - F is compatible with all metals.

Typical Properties :

Appearance	Bright & Clear
Kin. Vis. @ 40 °C, cSt	27 - 32
Kin. Vis. @ 100 °C, cSt	5 ± 0.5
Specific Heat KJ / Kg °K @ 300 °C	3
Max. Bulk Temperature, °C	320
Flash Point °C	210 to 230
Density @ 15.5 °C g/cm ³	0.85 ± 0.03
Auto Ignition Temp. °C	Above 350
Distillation 10 % °C	375
Pour Point °C	< -10

Packing :

210 Ltrs, 35 Ltrs

Temperature	Density	Specific Heat	Thermal Conductivity	Kinematic Viscosity	Vapour Pressure
°C	Kg/m ³	kJ/Kg °K	W/m·K	cSt	kPa
0	852	1.800	0.135	229	-
10	848	1.842	0.134	116	-
20	844	1.884	0.133	70.2	-
30	841	1.926	0.132	45.6	-
40	837	1.968	0.132	30.4	-
50	833	2.010	0.131	20.8	-
60	829	2.052	0.130	15.2	-
70	825	2.093	0.130	11.1	-
80	821	2.135	0.129	8.50	-
90	817	2.177	0.128	6.50	0.01
100	813	2.219	0.127	5.02	0.02
110	809	2.261	0.127	4.06	0.03
120	805	2.303	0.126	3.30	0.05
130	801	2.345	0.125	2.75	0.06
140	797	2.387	0.125	2.23	0.08
150	793	2.428	0.124	1.99	0.10
160	789	2.470	0.123	1.81	0.16
170	785	2.512	0.122	1.63	0.24
180	781	2.554	0.122	1.48	0.38
190	777	2.596	0.121	1.35	0.57
200	773	2.638	0.120	1.24	0.85
210	769	2.680	0.120	1.13	1.26
220	765	2.721	0.119	1.05	1.84
230	761	2.763	0.118	0.97	2.55
240	757	2.805	0.117	0.88	3.57
250	754	2.847	0.117	0.82	4.90
260	750	2.889	0.116	0.76	6.67
270	746	2.931	0.115	0.71	9.17
280	742	2.973	0.115	0.67	12.39
290	738	3.015	0.114	0.62	16.35
300	734	3.056	0.113	0.59	21.63
310	730	3.098	0.112	0.57	27.85
320	726	3.140	0.112	0.55	35.43

Note : Above data is for reference only

Liability Disclaimer : This information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided – especially that contained in our safety data and technical information sheets – and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our Products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

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

