

FRAGOLTHERM® 550

Heat Transfer Fluid
-10 °C to 315 °C

Application

FRAGOLTHERM® 550 is used for pressureless, indirect heating in heat transfer systems. Typical fields of application are, for example, die casting for the automotive industry, plastics processing and temperature control processes for the building materials industry.

FRAGOLTHERM® 550 can be used in the liquid phase at a temperature range of between -10 °C and 315 °C. If the pumpability limit can be extended up to 2000 mm²/s, an increase of the temperature range down to -28 °C is possible. The film temperature at the heater must not exceed 335 °C.

With use in high temperature ranges a nitrogen blanket is recommended in the expansion tank, in order to prevent premature ageing.

Quality

FRAGOLTHERM® 550 is a synthetic heat transfer fluid based on alkylbenzene.

FRAGOLTHERM® 550 shows excellent viscosity characteristics down to -10 °C and provides a very low pourpoint.

FRAGOLTHERM® 550 is non-corrosive and is compatible with materials conventionally used in heat transfer technology.

Packaging

FRAGOLTHERM® 550 is available in drums and in pails.

Notes

Please note that thermal or oxidative decomposition may cause an increase in low and high boiling substances when using heat transfer fluids even below the maximum specified bulk temperature.

When handling the product it is essential to observe the safety data sheet.

Please get in touch with us if you require further information or general technical advice.

Properties

FRAGOLTHERM® 550			Method
Density @ 20 °C	[kg/m ³]	872	-
Viscosity @ 40 °C	[mm ² /s]	18.6	-
Viscosity @ 100 °C	[mm ² /s]	3.40	-
Pourpoint	[°C]	<-40	ASTM D 97
Flash point	[°C]	177	ASTM D 93
Boiling point @ 1013 mbar	[°C]	350	-
Max. film temperatur	[°C]	335	-
Max. bulk temperatur	[°C]	315	-
Dangerous goods according to IATA/IMDG/ADR	[-]	no	-



Rodun International BV

WE ALWAYS HAVE A SOLUTION FOR YOU!

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FRAGOL THERM® 550

Temp. °C	Vapor Press. kPa (abs)	Density kg/m ³	Heat Capacity kJ/kgK	Thermal Cond. W/mK	Visc. (kin) mm ² /s	Visc. (dyn) mPas	Prandtl- Number
-10		891	1.81	0.133	343	306	4153
0		885	1.85	0.132	160	142	1985
10		878	1.88	0.131	82.7	72.6	1044
20		872	1.92	0.130	46.4	40.5	599
30		865	1.96	0.128	28.6	24.7	378
40		859	1.99	0.127	18.6	16.0	250
50		852	2.03	0.126	12.4	10.6	170
60		846	2.06	0.125	8.93	7.55	125
70		839	2.10	0.124	6.73	5.65	95.9
80		833	2.13	0.122	5.25	4.37	76.1
90		826	2.17	0.121	4.21	3.48	62.3
100		820	2.20	0.120	3.40	2.79	51.1
110		813	2.24	0.119	2.81	2.28	43.1
120		806	2.27	0.118	2.40	1.93	37.3
130		799	2.31	0.116	2.12	1.69	33.6
140	1	792	2.34	0.115	1.86	1.47	29.9
150	1	785	2.38	0.114	1.63	1.28	26.7
160	1	778	2.41	0.113	1.45	1.13	24.1
170	1	770	2.45	0.112	1.30	1.00	22.0
180	1	764	2.49	0.110	1.19	0.91	20.5
190	2	757	2.52	0.109	1.08	0.82	18.9
200	3	750	2.56	0.108	1.00	0.75	17.8
210	4	742	2.59	0.107	0.92	0.68	16.6
220	5	734	2.63	0.106	0.85	0.62	15.5
230	6	727	2.66	0.104	0.79	0.57	14.6
240	8	720	2.70	0.103	0.74	0.53	13.9
250	11	712	2.73	0.102	0.69	0.49	13.1
260	14	706	2.77	0.101	0.64	0.45	12.4
270	17	698	2.80	0.100	0.60	0.42	11.8
280	22	692	2.84	0.098	0.56	0.39	11.2
290	29	684	2.87	0.097	0.53	0.36	10.7
300	36	678	2.91	0.096	0.50	0.34	10.3
310	44	670	2.94	0.095	0.47	0.31	9.77
320	54	663	2.98	0.094	0.44	0.29	9.29
330	68	655	3.01	0.092	0.40	0.26	8.53
335	76	651	3.03	0.092	0.38	0.25	8.17

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All the above information is provided to the best of our knowledge. Any legal liability for the content of this information and the suitability of the product for certain applications is rejected. Technical data are approximate values and are subject to the usual production fluctuations.