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FRAGOLTHERM® HT

Heat Transfer Fluid
0 °C to 350 °C

Application

FRAGOLTHERM® HT is used for pressureless, indirect heating in heat transfer systems. Typical fields of application are, for example, chemical production, waste heat recovery, plastics processing, synthetic fiber production and extrusion process.

FRAGOLTHERM® HT can be used in the liquid phase at a temperature range between 0 °C and 350 °C. The film temperature at the heater must not exceed 380 °C.

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

Quality

FRAGOLTHERM® HT is a synthetic heat transfer fluid based on dibenzyltoluene.

FRAGOLTHERM® HT is a thermally stable heat transfer fluid due to its chemical structure.
FRAGOLTHERM® HT is characterized by its low vapor pressure and its high boiling point.

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

Packaging

FRAGOLTHERM® HT is available as standard in steel drums and 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® HT			Method
Density @ 20 °C	[kg/m³]	1044	-
Viscosity @ 40 °C	[mm²/s]	16.96	-
Viscosity @ 100 °C	[mm²/s]	2.85	-
Pourpoint	[°C]	-34	ISO3016
Flash point	[°C]	200	ISO 2719
Boiling point @ 1000 mbar	[°C]	390	-
Max. film temperature	[°C]	380	-
Max. bulk temperature	[°C]	350	-
Dangerous goods according to IATA/IMDG/ADR	[-]	yes	-

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Temp. °C	Vapor Press. kPa (abs)	Density kg/m³	Heat Capacity kJ/kgK	Thermal Cond. W/mK	Visc. (kin) mm²/s	Visc. (dyn) mPas	Prandtl-Number
0		1059	1.52	0.130	259	274	3205
10		1052	1.55	0.129	104	109	1310
20		1044	1.58	0.128	50.1	52.3	646
30		1037	1.62	0.127	27.7	28.7	367
40		1029	1.65	0.126	17.0	17.5	229
50		1022	1.68	0.125	11.2	11.4	154
60		1014	1.71	0.125	7.87	7.98	109
70		1007	1.74	0.124	5.79	5.83	81.8
80		1000	1.78	0.123	4.43	4.43	64.1
90		992	1.81	0.122	3.51	3.48	51.7
100		985	1.84	0.121	2.85	2.81	42.7
110		977	1.87	0.121	2.36	2.31	35.6
120		970	1.90	0.120	2.00	1.94	30.7
130		962	1.93	0.119	1.72	1.65	26.8
140		955	1.97	0.118	1.50	1.43	23.9
150		948	2.00	0.117	1.32	1.25	21.4
160		940	2.03	0.116	1.18	1.11	19.4
170		933	2.06	0.116	1.06	0.99	17.6
180		925	2.09	0.115	0.96	0.89	16.1
190	1	918	2.13	0.114	0.88	0.81	15.1
200	1	911	2.16	0.113	0.81	0.74	14.1
210	1	903	2.19	0.112	0.75	0.68	13.2
220	1	896	2.22	0.112	0.69	0.62	12.3
230	2	888	2.25	0.111	0.65	0.58	11.7
240	3	881	2.29	0.110	0.61	0.54	11.2
250	4	873	2.32	0.109	0.57	0.50	10.6
260	5	866	2.35	0.108	0.54	0.47	10.2
270	7	859	2.38	0.107	0.51	0.44	9.74
280	10	851	2.41	0.107	0.49	0.42	9.39
290	13	844	2.45	0.106	0.47	0.40	9.17
300	17	836	2.48	0.105	0.45	0.38	8.89
310	22	829	2.51	0.104	0.43	0.36	8.60
320	29	821	2.54	0.103	0.41	0.34	8.30
330	36	814	2.57	0.102	0.40	0.33	8.20
340	46	807	2.60	0.102	0.38	0.31	7.82
350	57	799	2.64	0.101	0.37	0.30	7.73
360	71	792	2.67	0.100	0.36	0.29	7.61
370	86	784	2.71	0.099	0.34	0.27	7.30

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