Heatmax HT 66

Synthetic organic based heat transfer medium

Description

Heatmax HT 66 is a fully synthetic heat transfer fluid with excellent thermal stability, designed to offer outstanding performance in heating and cooling systems. The product will not crack and thermally break when operated at elevated temperatures while at the same time it's low pour point makes it a very all-round medium for use in cooling or as a solution for equipment in cold environments with frequent start-stop activities. Equipment running on Heatmax HT 66 show increased reliability and will eventually bear less maintenance costs.

Applications

Heatmax HT 66 is suitable for use in liquid phase in closed, forced circulation thermal systems as long as bulk temperature does not exceed 350 °C and performs best between 250 °C and the given upper temperature limit. The product offers safe operation in indirect heating of many types of industrial processing equipment such as heat exchangers, driers, vessels and reactors.

Benefits

- Enhanced thermal stability even at 350 °C
- Maximum film temperature 380 °C
- Excellent low temperature fluidity
- Enhanced safety thanks to high boiling point
- Non corrosive

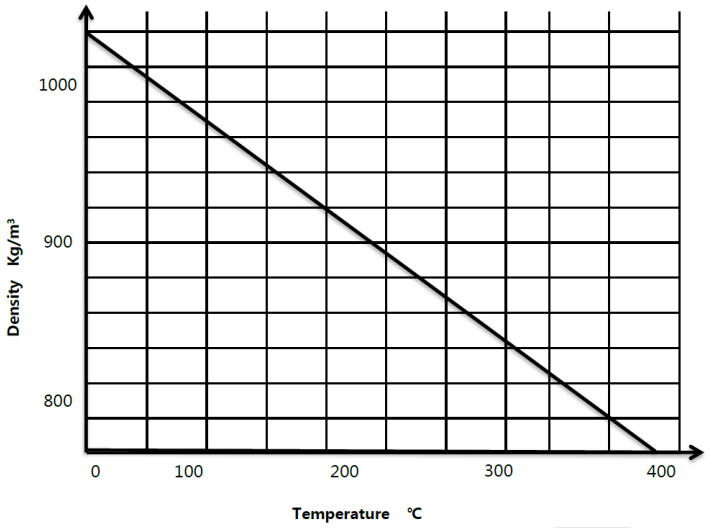
Typical performance data

	HT 66
Appearance	Light yellow liquid
Colour	L0.5
Density @ 15 °C, g/m3	1.01
Viscosity @ 40 °C, cSt	20,4
Viscosity @ 100 °C, cSt	3,19
Flash point, °C	186
Boiling point, °C	363
Pour point, °C	-26

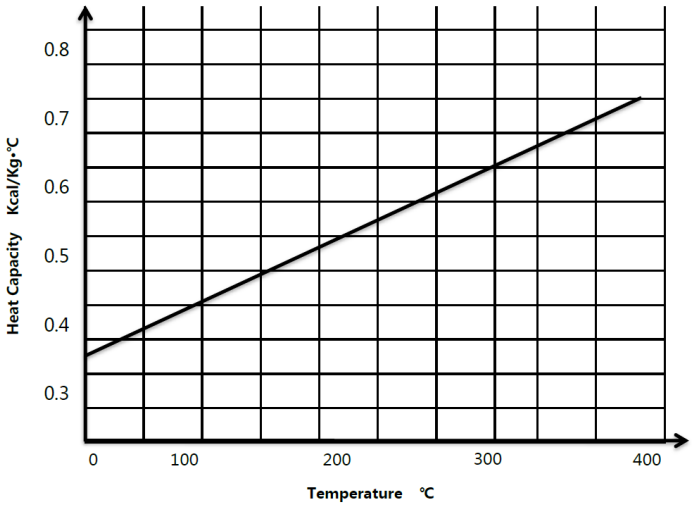
Thermal performance

Temperature		Density	Heat capacity	Thermal conductivity	Viscosity	Vapour pressure
°F	°C	Kg/m^3	Kcal/kg°C	Kcal/m-hr°C	CP	Mm/Hg
0	-18	1033	0.35	0.105	2630	----
40	4	1017	0.37	0.104	214	----
80	27	1002	0.39	0.103	40	----
120	49	987	0.4	0.102	13.6	----
160	71	972	0.42	0.100	6.31	----
200	93	957	0.44	0.099	3.54	0.15
240	116	942	0.46	0.098	2.22	0.5
280	138	927	0.48	0.096	1.56	1.5
320	160	912	0.50	0.095	1.17	3.9
360	182	896	0.52	0.093	0.91	9.2
400	204	881	0.53	0.091	0.74	20
440	227	866	0.55	0.089	0.62	42
480	249	851	0.57	0.088	0.54	81
520	271	836	0.59	0.085	0.47	150
560	293	821	0.61	0.083	0.42	250
600	316	806	0.63	0.081	0.38	430
640	338	791	0.65	0.079	0.35	690
650	343	787	0.65	0.078	0.34	770
660	349	783	0.66	0.078	0.34	860
680	360	775	0.67	0.076	0.33	1100

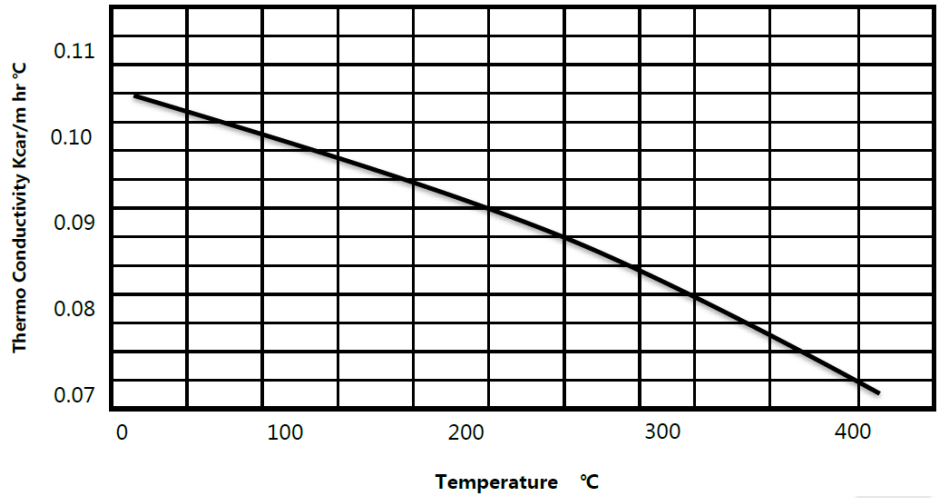
Density-temperature chart



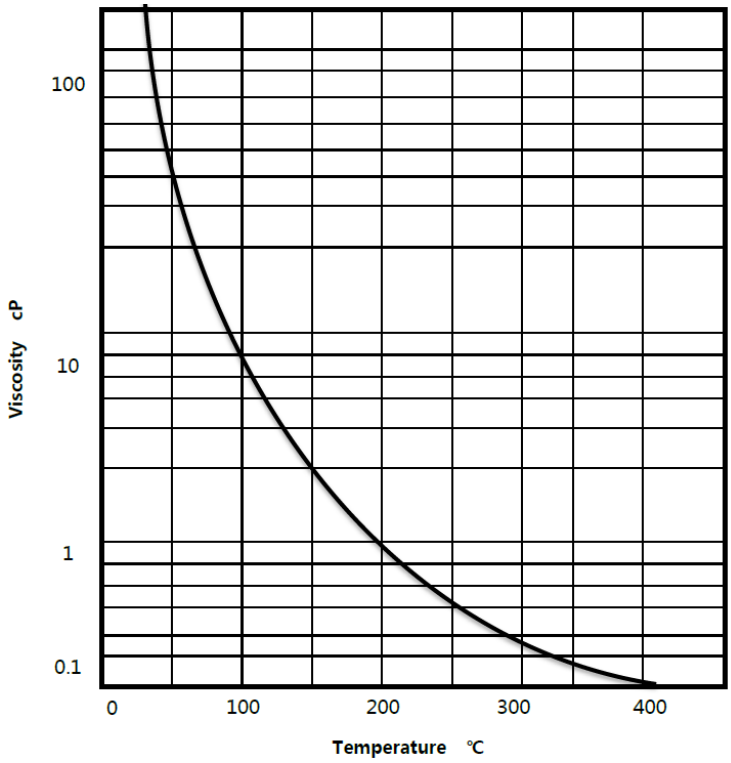
Heat capacity



Thermo conductivity-temp chart



Viscosity-temp chart



Vapour pressure-temp chart