repsol lubricants

Heat Transfer Fluid

MAKER TERMICO

Description

Fluid specially formulated for use as a heat transfer agent. It is formulated from highly refined mineral bases with specific additivation that gives it extraordinary thermal stability.
It is a specific oil for use in closed-circuit and forced-circulation heat transfer systems in which maximum working temperatures reach approximately 300 °C, and it can reach up to 315 °C as film temperature.

Properties

·High thermal stability.
·Extended service life.
·Wide range of working temperatures.
·Easy temperature control.
·Good heat transfer coefficient.
·Low vapour pressure.
·Low tendency to form carbonaceous waste.
·Non-corrosive.
·Meets the technical requirements of thermal boiler manufacturers such as SUGIMAT SUGAT 10, Babbock Wanson (CNIM Group), CSC Portuguesa, etc.

Quality levels, approvals and recommendations

- DIN DIN: 51522-Q
- ISO ISO: 6743/12 - QB
- MANULI Hydraulics*

*Formal approval

Technical specifications

	UNIT	METHOD	VALUE
Density at 15 °C	g/cm3	ASTM D4052	0.876
Kinematic viscosity at 40 °C	cSt	ASTM D445	37
Kinematic viscosity at 100 °C	cSt	ASTM D445	5,8
Viscosity index	-	ASTM D2270	102
Flash point, open cup	°C	ASTM D92	246
Initial distillation point	°C	ASTM D2886	360
Pour point	°C	ASTM D97	-12
TAN	mg KOH/g	ASTM D664	0.4
TBN	mg KOH/g	ASTM D2896	1.1
Thermal stability	°C	-	300

The above mentioned characteristics are typical values and should not be considered product specifications.

T (ºC)	Visc (cSt)	Density (g/cc)	Conductivity (W/mºC)	Cp (Kj/kgºC)
20	99.16	0.871	0.105	1.874
40	35.87	0.858	0.103	1.954
60	16.71	0.846	0.101	2.034
80	9.26	0.833	0.099	2.114
100	5.80	0.820	0.097	2.194
120	3.97	0.807	0.095	2.274
140	2.90	0.794	0.093	2.354
160	2.22	0.781	0.091	2.434
180	1.78	0.768	0.089	2.514
200	1.46	0.755	0.087	2.594
210	1.33	0.748	0.086	2.634
220	1.23	0.741	0.085	2.674
230	1.13	0.735	0.084	2.714
240	1.06	0.728	0.083	2.754
250	0.99	0.722	0.082	2.794
260	0.91	0.715	0.081	2.834
270	0.85	0.709	0.080	2.874
280	0.79	0.702	0.079	2.914
290	0.74	0.695	0.078	2.954
300	0.70	0.689	0.077	2.994

