

MULTIGRADO TÉRMIICO

INDUSTRY



Lubricants

Description

Multigrado Termico is a specially formulated industrial grade lubricant for use as a heat transfer oil. It is formulated using highly refined hydrocracked base oils with dedicated additive technology. This enhances the cleanliness throughout the system and minimises carbon deposits which tend to block the pipelines. Additionally, the superior base oil used, provides outstanding oxidation resistance and guarantees the right performance for a longer period.

It is a top tier oil to be used in heat transfer systems where the temperature reaches up to 300 °C.

Properties

- High thermal stability and resistance to oxidation.
- Extended service life.
- Extremely good cleanliness capability
- Easy temperature control.
- Good heat transfer coefficient.
- Low vapour pressure.
- Low tendency to form carbonaceous waste.

Quality levels

- ISO 6743/12-QB
- DIN 51522-Q

Technical specifications

	UNIT	METHOD	VALUE
Density at 15 °C	g/mL	ASTM D 4052	0.875
Viscosity at 40 °C	cSt	ASTM D 445	37
Viscosity at 100 °C	cSt	ASTM D 445	5.8
Viscosity index	-	ASTM D 2270	102
Pour point	°C	ASTM D 97	-12
Flash point	°C	ASTM D 92	220
Initial distillation point	°C	ASTM D 1160	360
TAN	mg KOH/g	ASTM D 664	0.4
TBN	mg KOH/g	ASTM D 2896	1.1
Thermal stability	°C	-	300

A safety data sheet is available on request.

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Technical data sheet for lubricant RNS650E. Revision 1. June 2020

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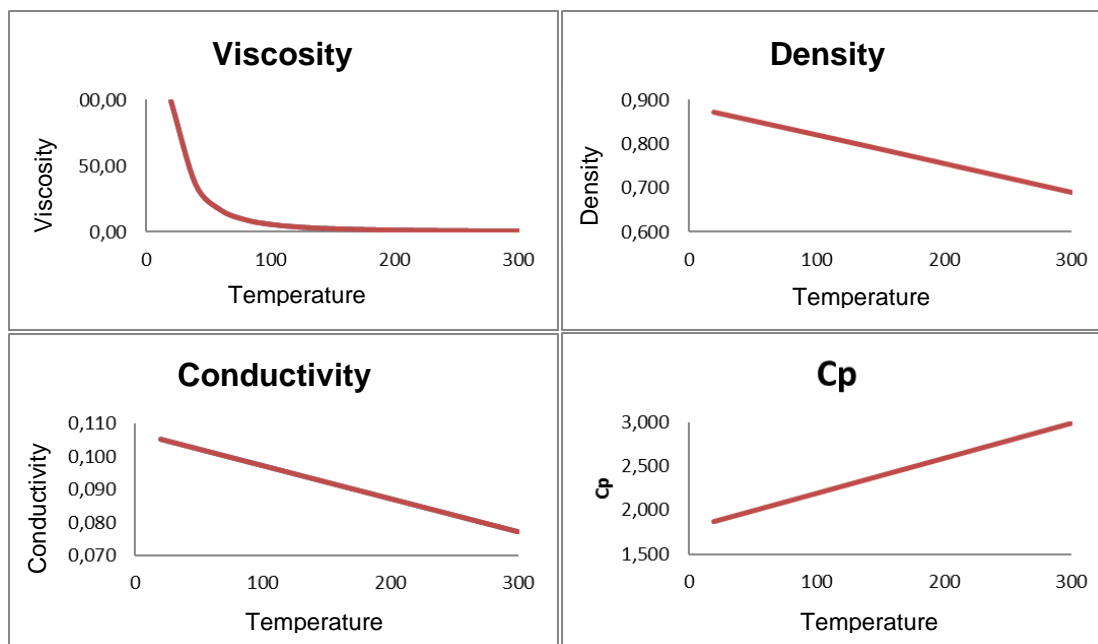
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Technical data to design heat transfer circuits:

T (°C)	Visc (cSt)	Density (g/cc)	Conductivity (W/m°C)	Cp (Kj/kg°C)
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



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

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