

Renolin Therm Plus 32

Product Code: 430 (Rev. 1 – 10 / 16)

Description

Renolin Therm Plus 32 is based on highly refined; hydro-treated Group II mineral base oil designed primarily for use in closed loop heat transfer systems. Renolin Therm Plus 32 is designed for use in systems that are equipped with expansion tanks, and it is recommended to have pressure relief valves and an inert gas blanket on the system. In properly designed systems it will provide trouble free, long lasting service of heat transfer.

Application

Fuchs Renolin Therm Plus 32 has high specific heat and thermal conductivity at all temperatures,

It will give rapid heating and efficient operation of the heat transfer system.

The application limits of heat transfer oils depend first on circulating speed and second on temperature in closed circuit systems. In general,

the minimum velocities vs. temperatures are as follows:

- Velocity of 1.5 m/s (5 ft/s) for operating temperatures below 200°C (400°F).
- Velocity of 2.0 m/s (7 ft/s) for operating temperatures between 200 and 260°C (400 and 500°F).
- Velocity of 3.0 m/s (10 ft/s) for operating temperatures between 260 and 300°C (500 and 575 °F).
- Velocity of 3.5 m/s (12 ft/s) for operating temperatures above 300°C (575 °F).

Advantages

- Long & trouble free service life due to higher Thermal & Oxidation stability
- Excellent heat transfer medium due to high specific heat
- Efficient performance in wider temperature range
- Max Film temperature up to 320 °C and max bulk oil temperature 295 °C

Properties	Unit		Test Method
ISO Viscosity Grade	-	32	
Viscosity @ 40 °C	mm ² /s	32.50	ASTM D-445
@ 100 °C	mm ² /s	5.770	ASTM D-445
Viscosity Index	-	121	ASTM D-2270
Sp.Gr @85/85 °F	g/cm ³	0.8455	ASTM D-4052
Flash Point	°C	240	ASTM D-92
Pour Point	°C	- 27	ASTM D-97
Neutralization Number	-	0.07	ASTM D-974
Thermal Expansion Coefficient, 0-300 °C	1/K	0.000788	-
Thermal Conductivity @ 38 °C	W/m/K	0.126	-
Specific Heat @ 25 °C	J/Kg/K	1910	-

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While the information and figures given here are typical of current production and confirm to specification, minor variations may occur. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of the product

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