

DIVYOL THERM T HEAT TRANSFER FLUID

Divyol Therm T is a special heat transfer fluid processed from highly refined paraffinic oils with high viscosity index. The blend possesses exceptional oxidation stability, high thermal conductivity and adequate specific heat to facilitate effective heat transfer. Mineral oils are generally preferred for use in heat transfer systems operating up to a bulk temperature of 300°C. These systems are so designed that the heat transfer fluid is pumped to the tube furnace, gets heated and this hot oil is then passed through the process vessels from where it is conveyed back to the pump. An expansion tank of suitable design is connected to the suction side of the pump to take care of the variation in the volume.

Applications:

Divyol Therm T is recommended for use in heat transfer systems operating with bulk oil temperature up to 300 °C. It is also suitable for direct and secondary heating in conventional heat transfer operations in textile, pharmaceutical, chemical and processing industries. It also functions as a lubricant for circulating pumps. Having correct viscosity, Divyol Therm T is able to yield optimum heat transfer rates from well designed systems.

Standards:

Divyol Therm T heat transfer fluid meets the performance standards of IS:14745:1999 (Reaffirmed 2004).

Advantages:

Usage of Divyol Therm T heat transfer fluid results in lower evaporation losses, and consequently a smaller difference to make up for in oil volumes. It also leads to fewer oil change intervals and generates very little oxidation by-products during its operational life. Its low viscosity and excellent pumpability ensures lower power consumption.

Typical properties:

Sr. No.	Characteristics	Test Method	Divyol Therm T
1	Appearance	Visual	Bright and clear
2	Kinematic viscosity at 40 °C, min.	ASTM D 445	30
3	Kinematic viscosity at 100 °C, cSt, min.	ASTM D 94	5
4	Flash point, COC, °C, min.	ASTM D 92	220
5	Pour point, °C, max.	ASTM D 97	
6	Viscosity index, min.	ASTM D 2270	119
7	Copper corrosion, 100 °C, 3 hrs	ASTM D 130	1A
8	Initial boiling point °C	ASTM D 1160	380
9	Final boiling point °C	ASTM D 1160	480
10	Neutralisation value, mg KOH/g	ASTM D 664	<0.2
11	Coefficient of thermal expansion	-	0.00080
12	Thermal conductivity @ 29.5 °C cal/cm.s °C	-	0.000321

The above properties are typical values and do not constitute specification of the product.

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