

Performance Par Excellence

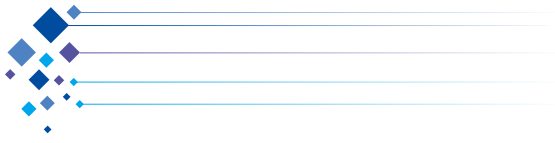
gandhar
Stay Ahead



Heat Transfer Fluids

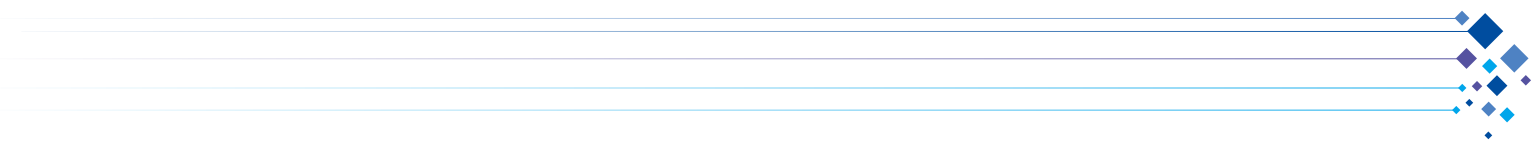
Industrial Oils

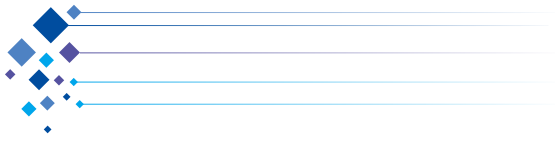
divyol
solutions within solutions



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WIDE RANGE OF INDUSTRIAL OILS



HEAT TRANSFER FLUIDS

Keeping temperatures down

Divyol Heat Transfer Fluids are manufactured from purified paraffinic oils having a high viscosity index. These base stocks have exceptional oxidation stability and are ideal for blending of heat transfer oils owing to their high thermal conductivity.



DIVYOL THERM 500 / 600 HEAT TRANSFER FLUIDS

Divyol Therm 500 and 600 are heat transfer fluids formulated using highly refined paraffinic oils with high viscosity index. These oils possess 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 with temperatures ranging from 270 °C to 310 °C. In the operation, 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. Divyol Heat Transfer Fluids have the correct viscosity; hence they are able to yield optimum heat transfer rates from well-designed systems.

Applications:

Divyol Therm 500 is recommended for use in heat transfer systems operating with bulk oil temperature up to 280 °C. Divyol Therm 600 provides superior performance due to its low Sulphur content and CCR value and is recommended for operating at temperature up to 300 °C. Divyol heat transfer fluids also function as lubricants for circulating pumps.

Advantages:

The properties of Divyol Therm heat transfer fluids 500 and 600 include low volatility and the absence of high pressure, which facilitates efficient compact units and associated space savings. Due to high boiling point they can be used without pressurization at maximum bulk temperature. These oils also generate the least amount of oxidation by-products and reduce oil change periods. There is also lower evaporation loss, and consequently a smaller difference to make up for, in oil volumes. Their low viscosity and excellent pumpability ensure lower power consumption.

Typical properties:

Sr. No.	Characteristics	Test Method	Divyol Therm	
			500	600
1	Appearance	Visual	Bright and clear	Bright and clear
2	Colour, max.	ASTM D 1500	<1	<1
3	Flash point (COC), °C, min.	ASTM D 92	200	220
4	Kinematic viscosity at 40°C, cSt, min.	ASTM D 445	30	35
5	Viscosity index min.	ASTM D 2270	95	100
6	Pour point °C, max.	ASTM D 97	-9	-15
7	Ignition temperature °C	-	>350	>350
8	Initial boiling point °C	ASTM D 1160	350	363
9	Final boiling point °C	ASTM D 1160	440	442
10	CCR wt%	-	<0.02	<0.02

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

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DIVYOL THERM 740 HEAT TRANSFER FLUID

Divyol Therm 740 is a synthetic type heat transfer fluid processed from synthetic base oil and select additives that enhance performance. It can be used in thermic fluid systems up to maximum temperature of 310°C to 320°C.

Applications:

Divyol Therm 740 heat transfer fluid is used in a wide variety of industrial heating system applications such as natural gas purification, plastics moulding process, pharmaceuticals, chemicals processing, biodiesel production and textile manufacture. It is specially recommended for use in heat transfer systems operating with bulk oil temperature up to 320°C.

Advantages:

Divyol Therm 740 heat transfer fluid generates the least amount of oxidation by-products. Regular usage of this thermic fluid reduces evaporation losses, and consequently there is a smaller variation to make up for, in oil volumes. It keeps the system clean and also reduces oil consumption and oil change frequency. Its low viscosity and excellent pumpability help reduce power consumption.

Typical properties:

Sr. No.	Characteristics	Test Method	Divyol Therm 740
1	Appearance	Visual	Bright and clear
2	Colour, max.	ASTM D 1500	1.0
3	Kinematic viscosity at 40°C, cSt, min.	ASTM D 445	33 – 38
4	Kinematic viscosity at 100°C, cSt, min.	ASTM D 94	6 – 10
5	Viscosity index, min.	ASTM D 2270	130
6	Flash point °C, min.	ASTM D 92	225
7	Pour point, °C, max.	ASTM D 97	-12
8	TAN, mg KOH/g	–	0.1
9	Ignition temperature °C	–	350
10	Initial boiling point °C	ASTM D 1160	340
11	Final boiling point °C	ASTM D 1160	399
12	Coefficient of thermal expansion	–	0.00092

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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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Gandhar Oil Refinery (India) Limited

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, GMP Certified, NABL Accreditation and Government Recognized Three Start Export House

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