

TRANSTHERM R

HEAT TRANSFER OIL

1-General Description

TRANSTHERM R is a high-performance mineral based heat transfer oil designed to be used up to a maximum film temperature of 350 °C in non-pressurised heat transfer systems. The product is suitable to be used in industrial processes in closed circuit and indirect heating-cooling systems.

TRANSTHERM R is formulated with high quality base oils that have high resistance to thermal decomposition and chemical oxidation. It is not recommended to mix **TRANSTHERM R** with other heat transfer oils during filling or top ups. If mixed, the thermal and oxidation stability of **TRANSTHERM R** may be negatively affected. In this regard, the performance of the product decreases and its life is reduced.

Key Benefits

- High oxidation resistance
- Excellent thermal stability
- High evaporation resistance
- Low vapor pressure
- Excellent heat transfer ability
- Superior corrosion protection feature

TRANSTHERM R should not be operated above the recommended operating temperatures. In case of working at high temperatures, residual formation occurs, which has a negative effect on heat transfer ability.

2-Application Recommendations

Detailed information document about the first filling, commissioning and use of our **TRANSTHERM R** product can be provided by the PETROFER sales team.

3-Chemical and Physical Properties

Appearance	Visual	Clear, Yellow
Viscosity, 40°C, mm ² /s	ASTM D 7042	32
Density, 15°C, g/cm ³	ASTM D 7042	0.874
Flash point, °C	ASTM D 92	≥ 210
Pour point, °C	ASTM D 6749	- 9
Oil film operating temperature, °C		350
Heat Transfer Coefficient, W/mK		0.12
Expansion Coefficient (For every 1°C)		0.0007

4-Storage

It should be stored in a dry, sealed environment, away from extreme temperature variations and sunlight, upright if the packaging is opened, and with the lid tightly closed. For more detailed information, please refer to the SDS.

Technical Data Sheet is valid together with the Safety Data Sheet.

The values in technical data sheet has been determined based on our current knowledge and experience and is indicated here to give an idea to the user. Although the specified values is based on the tests and controls to be made, they are not exact and decisive. As a manufacturer, our company has only responsibility within the framework of the provisions specified in the current laws and decrees, and any responsibility that may arise due to the use of the product belongs to the buyer and user. In addition, the above-mentioned values do not bind our company financially or legally in any way.

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