



Peregrine

Additives & Lubes

PAL HEATRA

Last Revision: 31/07/19

Heat transfer oils

Description

PAL Heatra oils are premium quality mineral-based heat transfer fluids with excellent thermal and oxidation stability. The base oils used in Heatra Series have been put through special refining steps to improve many of their exceptional properties and to remove undesirable characteristics that might lead to sludge or gum build-up under heat. These heat transfer fluids have high boiling points and good thermal conductivity making them ideal for use in closed circulating systems having bulk oil temperatures of up to 320°C. They may also be used in open systems if the bulk oil temperatures do not exceed 180°C.

Peregrine Heatra heat transfer oils are recommended to be used in systems with forced circulation. Systems that depend on convection for circulation of the heat transfer medium do not provide a rapid enough flow to prevent local overheating and rapid deterioration of the oil.

Features

- High resistance to oxidation gives long oil service life.
- Low viscosity (especially Heatra 32) for efficient heat transfer
- Economical long life fluids
- Non-corrosive to brass, steel, stainless steel and aluminum heat transfer systems
- Good pumpability for ease of circulation

Applications

- Can be used in open and closed installations where the bulk oil temperature ranges are as outlined above, and where minimum shutdown temperatures are not below -7°C.
- Closed, cold-oil sealed, indirect heating and cooling systems in all kinds of industrial processes operating at bulk oil temperatures up to the maximum temperatures quoted above and at atmospheric pressure.
- Open systems provided the bulk temperatures do not exceed the maximum temperatures quoted above.
- Typical applications include direct- and indirect-fired asphalt heaters, building heaters, plastic and wax coating

**6318 Union Ave.
Shreveport LA, 71106
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Typical Properties

ISO VG	32	100
Density@15°C, kg/L	0.866	0.880
Colour ASTM	0.5	2.0
Viscosity@ 0°C, cSt	290	1650
Viscosity@40°C, cSt	30.6	96.1
Viscosity@100°C, cSt	5.3	10.9
Viscosity@200°C, cSt	1.3	2.1
Viscosity@300°C, cSt	0.7	1.0
Viscosity Index	106	97
Flash Point, °C, COC	224	252
Fire Point, °C	252	272
Pour Point, °C	-15	-9
Neutralization value, mgKOH/g	<0.5	<0.5
Carbon residue, % wt	<0.1	<0.1
Coefficient of Thermal Expansion per °C	0.00077	0.00065

Typical values do not constitute as specifications. Due to continual product research and development, the information contained herein is subjected to change without notification

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