

Penzstar Therma Heat Trans 32

Premium quality heat transfer oil

Product Description

Penzstar Therma Heat Trans 32 is premium quality heat transfer oil intended for use in closed indirect heating systems. It is formulated from highly refined base stocks to provide excellent oxidation stability and resistance against thermal cracking. It possesses high specific heat and thermal conductivity to provide more rapid heat dissipation and its ability to flow rapidly at low temperatures ensures quick circulation at start-up and reduced risk of local over-heating. Although Penzstar Therma Heat Trans 32 is thermally very stable and are capable of offering extended service life without viscosity increase or deposit formation, it should be realised that the working life depends to a considerable extent on the effectiveness of the measures taken to exclude air. Penzstar Therma Heat 32 is primarily intended for use in enclosed and sealed heating systems where the maximum bulk oil temperature does not exceed 320 °C.

Features & Benefits

- Excellent thermal and oxidation stability minimises deposit formation and viscosity increase leading to extended service life and reduced downtime
- Exceptional resistance to thermal cracking and decomposition enables this oil to perform well up to a maximum bulk oil temperature of 320 °C with minimal interference with heat transfer capability
- High specific heat and thermal conductivity of this oil provides more rapid heat dissipation
- Superior low temperature fluidity ensures quick circulation at start-up and reduced risk of local overheating
- Non corrosive to aluminum, steel, copper, brass or bronze
- Non-toxicity of this oil provides easy disposal of used oil

Applications

- Closed, indirect heating and cooling systems equipped with expansion tanks in all kinds of industrial processes operating at bulk oil temperatures up to 320 °C
- Open heating systems provided that the bulk oil temperature does not exceed 180 °C

Specification & Typical Properties

Typical Properties	ASTM Method	Typical Values
ISO Viscosity Grade	ISO 3448	32
Specific Gravity @ 15.6 °C	ASTM D 1298	0.857
Viscosity, Kinematic		
at 40 °C, cSt	ASTM D 445	32
at 100 °C, cSt	ASTM D 445	5.8
Viscosity Index	ASTM D 2270	120
Pour Point, °C	ASTM D 97	-15
Flash Point, COC, °C	ASTM D 92	230
Copper Corrosion 3 hrs @100 °C	ASTM D 1300	1, Pass
Oxidation Life, hrs	ASTM D 943	2850
Conradson Carbon Residue, wt%	ASTM D 189	0.03
Rust Test	ASTM D 665 A&B	1, Pass