



PRODUCT & TECHNICAL DATA

PRO HEAT TRANSFER 32

FOR THE USE IN CLOSED HEAT TRANSFER SYSTEMS AND QUENCHING MEDIUM

DESCRIPTION

Pro Heat Transfer Oil 32 is a synthetic technology and thermally stable based oil for use in modern, enclosed, heat transfer systems. It is also suitable for certain quenching applications. The ability of this oil to flow rapidly at a low temperature ensures quick circulation at start up and less risk of overheating. Pro Heat Transfer Oil has a high viscosity index, excellent chemical and thermal stability, as well as good oxidation resistance at high temperatures.

APPLICATIONS

Pro Heat Transfer Oil is suitable for closed heat transfer systems working in a temperature range of -10 to 340 °C. Heat should be gradually applied while the oil is in circulation. This will minimise local overheating, oil cracking and coking of the elements in the heater. As a quenching medium, Pro Heat Transfer Oil is suitable for the quenching of small steel parts. Large numbers of this small parts can be quenched in a given time to provide a slow to medium quench rate. The outcome of the steel part, at this rate of quenching, will be sufficient hardness, without cracking the material.

FEATURES AND ADVANTAGES

- Excellent resistance to thermal degradation including oxidation and cracking.
- Higher safety factor due to a higher fire point.
- Reduced carbon residue and sludge's due to the product's higher thermal stability.
- Product is miscible and compatible with all proportions of mineral oil but not recommended as it reduces the performance capability of the product.
- Protection against corrosion.
- Greater solubilisation of the oxidation products which ensures that heating and circulating pipes are kept in a clean condition. This allows for greater efficiencies.
- Manufactured in a SABS ISO 9001/2008 quality based facility.
- Due to its elevated operating temperature over normal mineral base oils the product provides for a longer service life, reduced maintenance costs, greater productivity, lower capital costs due to extended equipment life and reduced operating costs through lower consumption rate.

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PHYSICAL CHARACTERISTICS

Viscosity @ 40 °cSt	30.50
Viscosity @ 100 ° cSt	5.40
Pour Point, °C	-30
Flash Point, Closed Cup, °C	218
Flash Point, Open Cup, °C	239
Fire Point, °C (Calculated)	264
Auto Ignition Point, °C	370
Density @ 20 °C, kg/l	0.856

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Further information on all Pro Oil SA lubricants is available from any Pro Oil SA office or from:
www.prooil.co.za

These characteristics are typical of current production.
Whilst future production will conform to Pro Oil SA's specification, variations in these characteristics may occur.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Pro Oil SA representative.

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For more information, contact: Pro Oil SA (PTY) LTD
Unit 3, Shalem Park
60 Lauda Road
Killarney Gardens
Cape Town
South Africa
7411

Technical Advice Line: (+27) 21 556 6109
Customer Service: (+27) 21 556 6109