



TECHNICAL DATA SHEET | INDUSTRIAL

Engen Genheat 22 and 32

General Purpose Heat Transfer Oils



PETRONAS

Engen is a
member of the
PETRONAS Group



Corrosion
Protection



High
Temperature

Description

Genheat 22 and 32 are straight mineral oils used for process, lubrication, heat transfer and quenching type applications. They are high viscosity index paraffinic base oils with good chemical stability, natural oxidation resistance at high operating temperatures and a low pour point which makes them suitable for outdoor and low temperature uses. Genheat 22 and 32 have good pumpability at start-up as well as high specific heat and thermal conductivity at all temperatures.

Benefits & Features

- Straight mineral composition.
- Low lubricant cost in wasteful conditions.
- Good oxidation resistance and chemical stability.

Application

Genheat 22 and 32 oils are recommended for use as general-purpose lubricants in equipment operating under lightly loaded or wasteful conditions, e.g. as a flushing oil for cleaning out circulation systems and oil reservoirs during oil change-over procedures. Typical applications include conveyors, chains, and outdoor machinery. Genheat 22 and 32 oils are used as heat exchanger medium in closed systems operating at temperatures up to 300 °C. Heat sources should apply heat gradually while oil is circulating to avoid local overheating, oil cracking and coking of the heater elements.

Genheat 22 and 32 are especially suitable for quenching of large numbers of smaller steel parts in a given time. They provide a slow to moderate quenching rate, which results in sufficient hardness without the danger of cracking the material.



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Typical Physical Characteristics

ENGEN GENHEAT 22 AND 32				
PARAMETERS	METHODS	UNITS	TYPICAL VALUES	
ISO Viscosity Grade	ISO 3448	-	22	32
Viscosity, cSt @ 40 °C	ASTM D445	cSt	20	30
Viscosity, cSt @ 100 °C	ASTM D445	cSt	4,06	5,15
Viscosity Index	ASTM D2270	-	97	95
Flash Point, °C, typ.	ASTM D92	°C	204	210
Pour Point, °C, max.	ASTM D97	°C	-15	-12
Density @ 20°C	ASTM D4052	g/cm3	0,854	0,865
IBP, °C	ASTM D7213	°C	316	325

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All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to Engen's specification, variations in these characteristics may occur.

Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water. For further detail regarding storage, safe handling, and disposal of product, please refers to product SDS. Safety Data Sheets are available for all our products and should be only be consulted for appropriate information regarding storage, safe handling and disposal of the product. No responsibility shall be taken by either Engen or its subsidiaries and related holding corporation for any loss or injury or any direct, indirect, special, exemplary, consequential damages or any damages whatsoever, whether in action of contract, negligence or other tortuous action, in connection or resulting from abnormal use of the materials and/or information, from any failure to adhere to recommendations, or from hazards inherent in the nature of the materials and/or information. All products, services and information supplied are under our standard conditions of sale. Please consult with any of our local representative in the event you require any further information.

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