Sasol Heat Transfer Oil 32

HEAT TRANSFER OIL, GRADE 32

Description

Sasol Heat Transfer Oil 32 is a highly refined paraffinic oil, resistant to high-temperature cracking and oxidation.

Application

Sasol Heat Transfer Oil 32 has extended thermal stability at bulk oil temperatures of up to 300°C in enclosed heat transfer systems. Where it is exposed to air in open systems, the operating temperature of Sasol Heat Transfer Oil 32 must **NOT** exceed 180°C.

Features and Benefits

Circulation and thermal loading should be so designed as to ensure that the oil film temperatures at the heater surfaces do NOT exceed 320°C in closed systems or 200°C in open systems.

It is essential to drain water condensate which accumulates in open systems and are not in continuous use.

Typical Characteristics

Property	**Units**	**Typical**	**ASTM**	**IP**
Viscosity			D445	71
@ 100°C	mm^2/s	**5**		
@ 40°C	mm^2/s	**31**		
Viscosity Index		**100**	D2270	226
Pour Point	°C	**-12**	D97	15
Flash Point (COC)	°C	**210**	D92	36
Oxidation Stability	h	**2300**	D943	157
Density	kg/m^3		D4052	139
@ 20°C		**868**		
@ 40°C		**855**		
@ 100°C		**817**		
Coefficient of Expansion	per 1°C	**0,00066**		
Thermal Conductivity	W/m°C	**0,11**		
Specific Heat Capacity*	kJ/kg			
@ 40°C		**1,9**		
@ 100°C		**2,3**		
@ 200°C		**3,0**		
@ 300°C		**3,2**		

$$* = \text{Specific heat capacity} = \frac{1{,}5 + 0{,}0036 \times T(°C)}{SG}$$

[where SG, specific gravity, = 0,881 – 0,00066 x T(°C)]

Storage and Handling

Use PVC, nitrile or other oil resistant gloves and protective clothing to prevent skin contact. Where eye contact is a potential hazard, goggles should be worn.
Avoid temperatures above 80°C and strong oxidizing agents.
Ambient temperatures and atmospheric pressures normally encountered within buildings or roofed-over outdoor storage areas are acceptable. Avoid entering areas where mists or vapours have built up as a result of abnormal temperatures or pressures without the proper breathing equipment and protective clothing.

Pack Information

Product Code	Pack Size
	20 L
	210 L