



HEAT TRANSFER FLUID

Description

Gem Heat Transfer Fluid is a low viscosity, light straw coloured oil of high resistance to oxidation and thermal cracking.

Application

Gem Heat Transfer Fluid is a premium oil that can operate to bulk temperatures of 320°C in closed systems. It should not be used in open systems where the bulk temperature exceeds 150 °C.

Benefits

Long-life products for maximum economy

Excellent circulation efficiency in all weather conditions

Rapid heat transfer due to high specific heat and thermal conductivity properties.

Typical Inspections

Inspection	Unit	Result
Flash Point, open	°C	227
Flash Point, closed	°C	218
Fire Point	°C	257
Auto Ignition Temperature	°C	380
Pour Point	°C	-9
Viscosity Index		123
Coefficient of Expansion	m ³ / °C	0.0006
Maximum Heater ratings	W / cm ²	
With circulation		3.00
Without circulation		1.25

Temp °C	Vapour Pressure mm Hg	Density kg / m ³	Specific Heat Kj / kg°C	Thermal Conductivity W / m°C	Viscosity cSt
0	-	0.872	-	-	300
50	-	-	-	0.133	22
100	0.00	0.806	2.163	0.130	5.3
150	-	-	-	0.126	2.4
200	2.00	0.74	2.522	0.122	1.4
250	12.0	-	-	0.119	1.1
300	80.0	0.674	2.886	0.114	0.76