

ChevronTexaco 22 Heat Transfer Oil

Category : Fluid , Lubricant

Material Notes:

Features Chevron Heat Transfer Oils are mineral-type transfer oils for use in secondary or indirect heating systems. They are formulated with ISOSYN® base stocks. Chevron Heat Transfer Oils are nontoxic, noncorrosive, low odor level, excellent seal compatibility fluids that can absorb heat quickly and transport it to the material or fluid requiring heat. Their excellent thermal and oxidation stability provides long service life and clean heat exchanger systems. There are many uses of heat in processing materials. There are also many ways of transferring heat to the material or fluid that needs to be heated. Chevron Heat Transfer Oils are excellent for this purpose and offer many advantages. They can be used at low pressures. In most applications, the equipment required to apply the oils is relatively inexpensive. The application equipment can also be portable and, therefore, used where it is needed. Applications Chevron Heat Transfer Oils are recommended for use in heat transfer systems where fuel oil, gas, or electricity is used to heat a fluid, which then transfers the heat to the point of application. In closed, forced circulation systems equipped with expansion tanks, Chevron Heat Transfer Oil Grade 22 can be used with bulk oil temperatures up to 316°C (600°F) and skin temperatures up to 343°C (650°F) where good thermal stability and pumpability are required. Chevron Heat Transfer Oil Grade 22 is also ideal where high heat transfer rates combine with high flow rates, and for systems where repeated heating and cooling cycles are required. In closed or open systems, Chevron Heat Transfer Oil Grade 46 can be used where bulk oil temperatures do not exceed 288°C (550°F) and skin temperatures may be as high as 316°C (600°F). The oil surface in contact with air in open systems should not exceed 107°C (225°F). Copper and copper alloys should not be used in heat transfer systems with a hydrocarbon fluid unless air (oxygen) is excluded from contact with the fluid by hermetic sealing and/or an inert gas "blanket."

Order this product through the following link:

http://www.lookpolymers.com/polymer_ChevronTexaco-22-Heat-Transfer-Oil.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.6083 g/cc	0.6083 g/cc	350°C
	0.655 g/cc	0.655 g/cc	300°C
	0.6916 g/cc	0.6916 g/cc	250°C
	0.729 g/cc	0.729 g/cc	200°C
	0.7658 g/cc	0.7658 g/cc	150°C
	0.8003 g/cc	0.8003 g/cc	100°C
	0.833 g/cc	0.833 g/cc	50°C
	0.868 g/cc	0.868 g/cc	0°C
	API Gravity	33.8 °	33.8 °
Viscosity Measurement	104	104	Viscosity Index; ASTM D2270
Saybolt Viscosity at 100°F	120 SUS	120 SUS	
Saybolt Viscosity at 210°F	41.3 SUS	41.3 SUS	

Physical Properties	Metric	English	Comments
Kinematic Viscosity at 100°C (212°F)	4.47 cSt	4.47 cSt	ASTM D445
Vapor Pressure	0.000 bar	0.000 torr	
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	1.33e-7 bar	0.000100 torr	
	@Temperature 50.0 °C	@Temperature 122 °F	
	0.00000147 bar	0.00110 torr	
	@Temperature 100 °C	@Temperature 212 °F	
	0.0000867 bar	0.0650 torr	
	@Temperature 150 °C	@Temperature 302 °F	
0.000100 bar	0.0750 torr		
@Temperature 200 °C	@Temperature 392 °F		
0.0107 bar	8.00 torr		
@Temperature 250 °C	@Temperature 482 °F		
0.0253 bar	19.0 torr		
@Temperature 300 °C	@Temperature 572 °F		
0.0667 bar	50.0 torr		
@Temperature 350 °C	@Temperature 662 °F		

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.82 J/g-°C	0.436 BTU/lb-°F	
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	2.00 J/g-°C	0.479 BTU/lb-°F	
	@Temperature 50.0 °C	@Temperature 122 °F	
	2.19 J/g-°C	0.523 BTU/lb-°F	
	@Temperature 100 °C	@Temperature 212 °F	
	2.37 J/g-°C	0.567 BTU/lb-°F	
	@Temperature 150 °C	@Temperature 302 °F	
2.56 J/g-°C	0.611 BTU/lb-°F		
@Temperature 200 °C	@Temperature 392 °F		
2.74 J/g-°C	0.655 BTU/lb-°F		

Thermal Properties	Metric @ Temperature 250 °C	English @ Temperature 482 °F	Comments
	2.92 J/g-°C @Temperature 300 °C	0.698 BTU/lb-°F @Temperature 572 °F	
	3.10 J/g-°C @Temperature 350 °C	0.742 BTU/lb-°F @Temperature 662 °F	
Thermal Conductivity	0.1112 W/m-K @Temperature 350 °C	0.7716 BTU-in/hr-ft ² -°F @Temperature 662 °F	
	0.1148 W/m-K @Temperature 300 °C	0.7968 BTU-in/hr-ft ² -°F @Temperature 572 °F	
	0.1186 W/m-K @Temperature 250 °C	0.8232 BTU-in/hr-ft ² -°F @Temperature 482 °F	
	0.1223 W/m-K @Temperature 200 °C	0.8484 BTU-in/hr-ft ² -°F @Temperature 392 °F	
	0.1259 W/m-K @Temperature 150 °C	0.8736 BTU-in/hr-ft ² -°F @Temperature 302 °F	
	0.130 W/m-K @Temperature 100 °C	0.900 BTU-in/hr-ft ² -°F @Temperature 212 °F	
	0.1333 W/m-K @Temperature 50.0 °C	0.9252 BTU-in/hr-ft ² -°F @Temperature 122 °F	
	0.1371 W/m-K @Temperature 0.000 °C	0.9516 BTU-in/hr-ft ² -°F @Temperature 32.0 °F	
Pour Point	-13.0 °C	8.60 °F	ASTM D97
Flammability Test	229	229	Fire Point °C
	315	315	Autoignition Point, °C
Flash Point	210 °C	410 °F	ASTM D92

Descriptive Properties	Value	Comments
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Ramsbottom Carbon Residue, wt%

Descriptive Properties	Value	Comments
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