ChevronTexaco 46 Heat Transfer Oil

Category : Fluid , Lubricant

Material Notes:

FeaturesChevron 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.ApplicationsChevron 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-46-Heat-Transfer-Oil.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.3215 g/cc	0.3215 g/cc	350°C
	0.668 g/cc	0.668 g/cc	300°C
	0.7032 g/cc	0.7032 g/cc	250°C
	0.7416 g/cc	0.7416 g/cc	200°C
	0.7763 g/cc	0.7763 g/cc	150°C
	0.8105 g/cc	0.8105 g/cc	100°C
	0.8425 g/cc	0.8425 g/cc	50°C
	0.8745 g/cc	0.8745 g/cc	0°C
API Gravity	32 °	32 °	
Viscosity Measurement	101	101	Viscosity Index; ASTM D2270
Saybolt Viscosity at 100°F	212 SUS	212 SUS	
Saybolt Viscosity at 210°F	47.4 SUS	47.4 SUS	

Physical Properties	Metric	English	Comments
Kinematic Viscosity at 40°C (104°F)	32.0 cSt	32.0 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	6.32 cSt	6.32 cSt	ASTM D445
Vapor Pressure	0.000 bar @Temperature 0.000 °C	0.000 torr @Temperature 32.0 °F	
	4.00e-8 bar @Temperature 50.0 °C	0.0000300 torr @Temperature 122 °F	
	2.67e-7 bar @Temperature 100 °C	0.000200 torr @Temperature 212 °F	
	0.0000227 bar @Temperature 150 °C	0.0170 torr @Temperature 302 °F	
	0.000467 bar @Temperature 200 °C	0.350 torr @Temperature 392 °F	
	0.00667 bar @Temperature 250 °C	5.00 torr @Temperature 482 °F	
	0.0213 bar @Temperature 300 °C	16.0 torr @Temperature 572 °F	
	0.0533 bar @Temperature 350 °C	40.0 torr @Temperature 662 °F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.81 J/g-°C @Temperature 0.000 °C	0.432 BTU/lb-°F @Temperature 32.0 °F	
	1.99 J/g-°C @Temperature 50.0 °C	0.476 BTU/lb-°F @Temperature 122 °F	
	2.18 J/g-°C @Temperature 100 °C	0.520 BTU/lb-°F @Temperature 212 °F	
	2.36 J/g-°C @Temperature 150 °C	0.563 BTU/lb-°F @Temperature 302 °F	
	2.54 J/g-°C @Temperature 200 °C	0.607 BTU/lb-°F @Temperature 392 °F	
	2.72 J/g-°C	0.650 BTU/lb-°F	

Thermal Properties	Metric	English	Comments
	@Temperature 250 °C	@Temperature 482 °F	
	2.90 J/g-°C @Temperature 300 °C	0.694 BTU/lb-°F @Temperature 572 °F	
	3.08 J/g-°C @Temperature 350 °C	0.737 BTU/lb-°F @Temperature 662 °F	
Thermal Conductivity	0.1096 W/m-K @Temperature 350 °C	0.7608 BTU-in/hr-ft²-°F @Temperature 662 °F	
	0.1134 W/m-K @Temperature 300 °C	0.7872 BTU-in/hr-ft²-°F @Temperature 572 °F	
	0.1171 W/m-K @Temperature 250 °C	0.8124 BTU-in/hr-ft²-°F @Temperature 482 °F	
	0.1207 W/m-K @Temperature 200 °C	0.8376 BTU-in/hr-ft²-°F @Temperature 392 °F	
	0.125 W/m-K @Temperature 100 °C	0.864 BTU-in/hr-ft²-°F @Temperature 212 °F	
	0.128 W/m-K @Temperature 150 °C	0.888 BTU-in/hr-ft²-°F @Temperature 302 °F	
	0.1316 W/m-K @Temperature 50.0 °C	0.9132 BTU-in/hr-ft²-°F @Temperature 122 °F	
	0.1352 W/m-K @Temperature 0.000 °C	0.9384 BTU-in/hr-ft²-°F @Temperature 32.0 °F	
Pour Point	-15.0 °C	5.00 °F	ASTM D97
Flammability Test	271	271	Fire Point °C
	315	315	Autoignition Point, °C
Flash Point	240 °C	464 °F	ASTM D92

Descriptive Properties	Value	Comments
Ramsbottom Carbon Residue, wt%	0.05	

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