ChevronTexaco Texatherm®

Category : Fluid , Lubricant

Material Notes:

Texaco Texatherm and Texatherm 22 deliver value through:Excellent thermal efficiency and stability — Long oil life is assured by outstanding thermal and oxidation stability which prevents sludging or deposits inside piping.Good rust and corrosion protection — No rusting or corrosive problems in circulating oil system.Excellent performance at temperature extremes — Outstanding thermal stability assures minimal thermal cracking at high temperatures or in repeated cycling from low to high temperatures.Ease of pumping and circulation — Excellent stability assures minimal oxidation which prevents sludging or deposits inside piping.Minimized makeup oil — Low vapor pressure combined with low volatility and high flash point means minimum evaporative loss.Texaco Texatherm and Texatherm 22 are mineral-type transfer oils for use in secondary or indirect heating systems.Texaco Texatherm and Texatherm 22 are nontoxic, noncorrosive, and has low odor level. They make excellent seal compatibility and 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. Texaco Texatherm and Texatherm 22 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.Texaco Texatherm and Texatherm 22 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 or open systems, Texaco Texatherm 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."Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing. CPS Number: 221507; MSDS Number: 8706

Order this product through the following link:
http://www.lookpolymers.com/polymer_ChevronTexaco-Texatherm.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.6215 g/cc	0.6215 g/cc	350°C (662°F)
	0.668 g/cc	0.668 g/cc	300°C (572°F)
	0.7032 g/cc	0.7032 g/cc	250°C (482°F)
	0.7416 g/cc	0.7416 g/cc	200°C (392°F)
	0.7763 g/cc	0.7763 g/cc	150°C (302°F)
	0.8105 g/cc	0.8105 g/cc	100°C (212°F)
	0.8425 g/cc	0.8425 g/cc	50°C (122°F)
	0.8473 g/cc	0.8473 g/cc	40°C (104°F)
	0.8745 g/cc	0.8745 g/cc	0°C (32°F)

Physical Properties	Metric	English	Comments
Viscosity Measurement	101	101	Viscosity Index
Kinematic Viscosity	1.7 cSt @Temperature 200 °C	1.7 cSt @Temperature 392 °F	
	2.7 cSt @Temperature 150 °C	2.7 cSt @Temperature 302 °F	
	27.5 cSt @Temperature 50.0 °C	27.5 cSt @Temperature 122 °F	
	480 cSt @Temperature 0.000 °C	480 cSt @Temperature 32.0 °F	
Saybolt Viscosity at 100°F	212 SUS	212 SUS	
Saybolt Viscosity at 210°F	47.4 SUS	47.4 SUS	
Kinematic Viscosity at 40°C (104°F)	41.1 cSt	41.1 cSt	
Kinematic Viscosity at 100°C (212°F)	6.32 cSt	6.32 cSt	
Vapor Pressure	5.33e-10 bar @Temperature 40.0 °C	4.00e-7 torr @Temperature 104 °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
CTE, linear	750 µm/m-°C @Temperature -17.8 - 0.000 °C	417 µin/in-°F @Temperature 0.000 - 32.0 °F	
	800 µm/m-°C @Temperature 40.0 °C	444 µin/in-°F @Temperature 104 °F	
	810 µm/m-°C @Temperature 50.0 °C	450 µin/in-°F @Temperature 122 °F	
	860 - 970 µm/m-°C @Temperature 150 °C	478 - 539 µin/in-°F @Temperature 302 °F	
	1080 µm/m-°C @Temperature 200 °C	600 µin/in-°F @Temperature 392 °F	
	1200 - 1310 µm/m-°C @Temperature 350 °C	667 - 728 µin/in-°F @Temperature 662 °F	
Specific Heat Capacity	1.81 J/g-°C @Temperature 0.000 °C	0.432 BTU/lb-°F @Temperature 32.0 °F	
	1.95 J/g-°C @Temperature 40.0 °C	0.467 BTU/lb-°F @Temperature 104 °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 @Temperature 250 °C	0.650 BTU/lb-°F @Temperature 482 °F	
	2.90 J/g-°C @Temperature 300 °C	0.694 BTU/lb-°F @Temperature 572 °F	
	3.08 J/g-°C	0.737 BTU/lb-°F	

Thermal Properties	Metric	English	Comments
	@Temperature 350 °C	@Temperature 662 °F	
Thermal Conductivity	0.110 W/m-K @Temperature 350 °C	0.761 BTU-in/hr-ft²-°F @Temperature 662 °F	
	0.113 W/m-K @Temperature 300 °C	0.787 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	
	0.121 W/m-K @Temperature 200 °C	0.838 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	
	0.132 W/m-K @Temperature 50.0 °C	0.913 BTU-in/hr-ft²-°F @Temperature 122 °F	
	0.132 W/m-K @Temperature 40.0 °C	0.918 BTU-in/hr-ft²-°F @Temperature 104 °F	
	0.135 W/m-K @Temperature 0.000 °C	0.938 BTU-in/hr-ft²-°F @Temperature 32.0 °F	
Pour Point	-51.0 °C	-59.8 °F	
Flash Point	240 °C	464 °F	
	271 °C	520 °F	[°C] Fire Point
	315 °C	599 °F	[°C] Auto-Ignition

Descriptive Properties	Value	Comments
Ramsbottom Carbon Residue, wt%	0.05	
Volume Change from 60°F, %	-1.3	0°C (32°F)
	1.96	40°C (104°F)
	12.5	200°C (392°F)
	15.6	250°C (482°F)

Descriptive Properties	Value	Comments
	2.76	50°C (122°F)
	6.74	100°C (212°F)
	9.2	150°C (302°F)

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