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Product Data Sheet



NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current as of December 21, 2006.

SYNTHETIC HEAT TRANSFER FLUIDS

THERMOYLE HT SERIES

Summit Thermoyle HT Series was designed to meet the tough thermal demands placed on high temperature heat transfer mediums. The synthetic hydrocarbon base stock is well suited to combat the problems of carbon formation on heated surfaces and decreased fluid life as is commonly encountered with conventional petroleum-based fluids without exhibiting the hazardous characteristics found in aromatic heat transfer fluids. The additional benefits of an extremely low vapor pressure and sub-zero pour points allow for increased efficiency while reducing pressure build-up and evaporation losses.

Physical Properties

PRODUCTS	50HT	100HT	200HT
Operating Temp Range	-50 to 500°F	-20 to 600°F	0 to 575°F
Viscosity			
@ 0 °F, cSt	49.80	326.00	812.00
@ 100 °F, cSt	5.30	18.20	31.85
@ 200 °F, cSt	1.70	4.38	5.67
@ 300 °F, cSt	N/A	1.96	2.63
@ 400 °F, cSt	N/A	1.11	1.39
@ 500 °F, cSt	N/A	0.71	0.84
@ 600 °F, cSt	N/A	0.50	0.56
Viscosity			
@ 0 °F, cPs	40.55	271.69	682.06
@ 100 °F, cPs	4.22	14.89	26.29
@ 200 °F, cPs	1.32	3.52	4.60
@ 300 °F, cPs	N/A	1.54	2.09
@ 400 °F, cPs	N/A	0.86	1.08
@ 500 °F, cPs	N/A	0.54	0.65
@ 600 °F, cPs	N/A	0.37	0.42
Density			
@ 0 °F, lbs/gal	6.781	6.941	6.996
@ 100 °F, lbs/gal	6.633	6.815	6.873
@ 200 °F, lbs/gal	6.471	6.688	6.752
@ 300 °F, lbs/gal	6.339	6.562	6.630
@ 400 °F, lbs/gal	6.192	6.436	6.508
@ 500 °F, lbs/gal	6.044	6.310	6.386
@ 600 °F, lbs/gal	5.897	6.184	6.264
Flash Point, °F (°C)	330 (166)	455 (235)	485 (252)
Fire Point, °F (°C)	355 (179)	485 (251)	510 (266)
Autoignition Temperature, °F (°C)	615 (324)	650 (343)	670 (354)
Pour Point, °F (°C)	-100 (-73)	- 100 (-73)	-90 (-68)
Vapor Pressure, mm Hg			
300°F	11.5	---	.7
400°F	73	4.1	3.8
500°F	300	20	14
600°F	---	82	55
Thermal Conductivity, BTU/Hr Ft °F			
300°F	.077	.080	.085
400°F	.072	.076	.083
500°F	.069	.073	.081
Boiling Range, ASTM D1160			
10%	590°F	780°F	798°F
90%	660°F	840°F	950°F