700 Kingsland Drive
PO Box 1928
Batavia, IL 60510
USA
Phone: (630) 232-7966
Fax: (630) 232-7968
www.Radcoind.com

HEAT TRANSFER FLUIDS

XCELTHERM® SST

High operating temperature of 675°F (357°C) at low pressure; liquid phase heat transfer fluid for demanding applications. Recommended for chemical refining, oil and glycol recovery units, chemical processing, gas processing, petrochemical plants and many other applications.

TYPICAL PROPERTIES

Key Operating Temperatures		
Maximum Bulk Fluid Operating Temperature	675°F	357°C
Maximum Film Temperature	725°F	385°C
Freezing/Melting Point	-11.2°F	-24°C
Flash Point (Pensky Martens)(ASTM D93)(min)	327°F	164°C
Flash Point (COC)(ASTM D92) (min)	345°F	174°C
Fire Point (minimum)(ASTM D92) (min)	374°F	190°C
Autoignition Temperature (Min)	779°F	415°C
Pumpability, at 300 mm2/s (cSt)	14°F	-10°C
Initial Boiling Point	>536°F	>280°C
Physical Properties		
Appearance	Water-white, clear liquid	
Odor	Mild	
Composition	Methylethylated aromatic mixture	
Average Molecular Weight	252 g/mol	
Density, at 25°C/77°F	7.98 lbs/gal	
Specific Gravity, at 25°C/60°F (ASTM D1298)(typical and range)	0.960	0.91 – 1.10
Moisture Content (ASTM D6304)(ppm)(max)	200	
Critical Temperature	908.3°F	468.8°C
Critical Pressure	217.5 psia	
Critical Density	16.82 lb/ft3	
Kinematic Viscosity, at 104°F/40°C (ASTM D445)	11 cSt	
Kinematic Viscosity, at 212°F/100°C (ASTM D445)	2.4 cSt	
Coefficient of Thermal Expansion	0.000556/°F	0.00100/°C
Heat of Vaporization, at Maximum Use Temperature	113.6 BTU/lb	264.2 kJ/kg
Total Acid Number (ASTM D664)	<=0.01 mg KOH/g	
*** Data represents typical laboratory samples and are not guaranteed for all samples**		