



Sunoco HTO Fluids

HTO Typical Thermal Properties

ISO grade	HTO 21 (32/46)	ISO 32	HTO 46
Vapor Pressure, psia (kpa)			
@ 15.6 °C (60°F)	0.0036 (.025)	0.004 (.028)	0.0036 (.025)
@ 38 °C (100°F)	0.0043 (.03)	0.005 (.03)	0.0043 (.03)
@ 160 °C (320°F)	0.032 (.022)	0.036 (.025)	0.032 (.022)
@288 °C (550°)	0.730 (5.03)	0.860 (5.93)	0.730 (5.03)
Coefficient of Thermal Expansion, vol %/°C (%/°F)			
@ 15.6 °C (60°F)	0.102 (.056)	0.102 (.056)	0.102 (.056)
@ 38 °C (100°F)	0.102 (.056)	0.102 (.056)	0.102 (.056)
@ 160 °C (320°F)	0.102 (.056)	0.102 (.056)	0.102 (.056)
@288 °C (550°)	0.102 (.056)	0.102 (.056)	0.102 (.056)
Thermal Conductivity, Btu/hr-ft-°F			
@ 15.6 °C (60°F)	0.081	0.081	0.081
@ 38 °C (100°F)	0.079	0.079	0.079
@ 160 °C (320°F)	0.074	0.074	0.074
@288 °C (550°)	0.067	0.067	0.067
Specific Heat Capacity, Cp, Btu/hr-lbs-°F			
@ 15.6 °C (60°F)	0.450	0.573	0.450
@ 38 °C (100°F)	0.468	0.583	0.468
@ 160 °C (320°F)	0.581	0.664	0.581
@288 °C (550°)	0.683	0.747	0.683

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via [HTTP://WWW.SUNOCOLUBES.COM/PRODUCT/SUNOCO-HEAT-TRANSFER-OILS](http://www.sunocolubes.com/product/sunoco-heat-transfer-oils)