



CHAMPION HEAT TRANSFER OIL

CHAMPION QUANTUM HTO heat transfer oils are designed for use in open systems up to 460°F and closed systems up to 660°F. They are formulated using the finest Group 2 low volatility base oils in combination with advanced corrosion and oxidation inhibitors giving Quantum HTOs extended oil life and maximizing equipment protection over the life of the oil.

Benefits and advantages:

- Resistant to thermal cracking
- Minimizes sludge and acid formation, extends product life
- Provides high specific heat and thermal conductivity lowering fuel cost
- Reduces potential for pump cavitation

TYPICAL SPECIFICATION

ISO Grade	CHAMPION QUANTUM HTO		
	32	68	100
Product Code	4218	4219	4220
MSDS #	900	900	900
Gravity API @ 60° F	32.3	30.6	30.2
cSt @ 40°C	32.0	69.0	97.4
cSt @ 100°C	5.6	9.0	11.4
Viscosity Index	106	104	103
Pour Point °F	5	5	5
Flash Point °F	430	475	500
Auto Ignition Temperature °F	660	680	700
Copper Strip 212° F	Neg	Neg	Neg
72 hr. sludge, mg	40	40	40
GB B4 Oxidation/Corrosion Test			
Viscosity Increase, %	4.0	4.0	4.0
TBN Change D2896	-0.59	-0.59	-0.59
Pentane Insolubles, %	0	0	0
Recommended System, max °F			
Open	380	440	460
Closed	600	630	660

CAUTION: Exceeding recommended system temperatures will reduce the life of the product.

DANGER: Direct contact with ignition sources or flame near open or closed system temperatures can result in fire.

Effective 04/13