



US LUBE

US LUBE HYDRO HEAT TRANSFER OIL

Product Description:

US Lube Hydro Heat Transfer Oil is premium heat transfer oil designed to give outstanding service in a variety of applications. US Lube Hydro Heat Transfer Oil is blended from highly refined hydro-treated base oil and fortified with oxidation inhibitors to enhance high temperature performance and stability. US Lube Hydro Heat Transfer Oil is resistant to oxidation and high temperature degradation, giving this fluid a long usable life and minimizing deposit formation that can inhibit efficient heat transfer.

US Lube Hydro Heat Transfer Oil may be used in both open and inert gas blanketed close heat transfer systems. The maximum temperature for use in an open system shall not exceed 150°C at the point where the oil is exposed to the air. In closed, inert gas blanketed systems, US Lube Hydro Heat Transfer Oil can be used up to 320°C.

Applications / Benefits:

- ▣ Blended with naturally high VI base oils.
- ▣ Contains high temperature oxidation inhibitors.
- ▣ Minimizes deposit formation.
- ▣ Long fluid life.

Typical Characteristics:

Test Description	Method	22	32	46	68	100
ISO Viscosity Grade	-	22	32	46	68	100
Specific Gravity @ 15 °C	ASTM D 4052	0.854	0.863	0.869	0.872	0.873
Flash Point, °C	ASTM D 92	210	220	225	228	238
Pour Point, °C	ASTM D 97	-24	-24	-21	-18	-18
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	22	32	46	68	100
cSt @ 100°C	ASTM D 445	4.47	5.34	6.69	8.61	11.3
Viscosity Index	ASTM D 2270	115	98	97	97	98
Color	ASTM D 1500	<0.5	<0.5	<0.5	<0.5	<0.5
Coefficient of Thermal Expansion	per °C	0.0074	0.00076	0.00077	0.00078	0.00079

Specific Heat Capacity

Temperature, °C	25	100	150	200	250	300
ISO 22 Specific Heat Capacity, kJ/kg·°C	1.82	2.08	2.21	2.49	2.73	2.91
ISO 32 Specific Heat Capacity, kJ/kg·°C	1.89	2.17	2.33	2.51	2.72	2.88
ISO 46 Specific Heat Capacity, kJ/kg·°C	1.95	2.21	2.36	2.52	2.7	2.87
ISO 68 Specific Heat Capacity, kJ/kg·°C	1.97	2.24	2.41	2.53	2.67	2.85
ISO 100 Specific Heat Capacity, kJ/kg·°C	1.99	2.27	2.45	2.55	2.65	2.82

Max. Film Temperature, °C	340
Max. Bulk Temperature, °C	320