

DURALIFE® HEAT TRANSFER OILS

Duralife® Heat Transfer oils are blended from high viscosity index base oils with oxidation inhibitors to enhance high temperature performance and stability.

APPLICATIONS:

Duralife® Heat Transfer oils are recommended for use in closed heat transfer systems with a bulk temperature of 320°C maximum and a skin temperature of 360°C maximum and for use in open systems with the maximum temperature should not exceed 200°C at the point where the oil is exposed to the air.

BENEFITS:

- Excellent thermal stability and resistance to oxidation and thermal cracking at high temperatures, hence avoiding the formation of oxidation sludge which may affect efficient heat transfer.
- Good demulsibility and air-separation performance, thus ensuring proper operation of the heat transfer unit, by preventing the formation of steam and air bubbles at hottest points.
- With a low pour point, it has good pump-ability in cold weather start-up, thereby providing good circulation and diminishing the likelihood of hot spots.
- High specific heat and thermal conductivity coupled with a suitable viscosity enable it to conduct and distribute large amount of heat efficiently.

TYPICAL CHARACTERISTICS

Test	Method	Typical Result			
		HT 22	HT 32	HT 46	HT 68
ISO Viscosity Grade		22	32	46	68
API Gravity	ASTM D287	32.08	31.14	30.21	29.29
Specific Gravity @ 15.6°C (60°F)	ASTM D1298	0.865	0.870	0.875	0.88
Viscosity@ 40°C, cSt @ 100°C, cSt	ASTM D445	22	30.5	44	65.5
		4.3	5.29	6.58	8.63
Viscosity Index	ASTM D2270	100	105	100	102
Flash Point, COC , °C (°F)	ASTM D92	200	210	220	240
		(392)	(410)	(428)	(464)
Fire Point ,COC , °C (°F)	ISO 2592	240	240	240	240
		(464)	(464)	(464)	(464)
Pour Point, °C (°F)	ASTM D97	-15	-12	-12	-12
		(5)	(10.4)	(10.4)	(10.4)
Specific Heat @ 200 °C , kJ/kg , °C		2.51	2.51	2.50	2.50
Thermal Conductivity @ 200 °C ,W/m °C	ASTM D 1160	0.12	0.12	0.12	0.12
Auto-ignition Temperature , °C (°F)	ASTM D 1255	350	355	360	360
		(662)	(671)	(680)	(680)
Color	ASTM D1500	0.5	0.5	<1.0	<1.0

The above characteristics are average values based on recent production. Minor variations which do not affect product performance are to be expected in normal manufacture.

WARNING:

Continuous contact with used oil has caused skin cancer in animal tests. Avoid prolonged contact. Thoroughly wash exposed areas with soap and water. Keep out of reach of children. Don't pollute. Conserve resources. Return used oil and bottle to collection centers. Reference SDS Number 12032 database on our website at www.amtecol.com OR scan the code for a direct link

