Heat Transfer Oil Plus

Product Overview

These premium heat transfer oils are formulated to meet the demanding service requirements of circulating heat transfer systems. Thermal stability is achieved by utilizing hydrocracked base stocks with excellent additive chemistry for outstanding and oxidation resistance at sustained operating temperatures up to 600°F. The product is non-corrosive to steel and copper in closed systems resulting in long service life for both the fluid and equipment. Low volatility characteristics, especially ISO Grades 46, 56, & 68, reduce vapor lock in circulating pumps and diminish the possibility of system cavitation.

Applications

Recommended for heat exchangers where a hot-oil medium is the energy transfer mechanism, i.e. asphalt plants, boiler systems, crude heating. It is suggested that the appropriate ISO Viscosity should be considered for individual applications based on system requirements. The recommended maximum temperature range is 600°F for closed systems and 400°F for open systems.

Typical Properties

Property	ISO 22	ISO 32	ISO 46	ISO 56	ISO 68
Viscosity, cSt @ 40°C	21.8	32.0	46.2	56.2	67.6
Viscosity, cSt @ 100°C	4.3	5.4	6.8	7.7	8.7
Viscosity Index	103	102	101	100	100
Flash Point, COC (°F)	400	405	440	450	480
Pour Point (°F)	-10	-5	0	+5	+10
Specific Gravity	0.8628	0.8665	0.8708	0.8735	0.8762
Gravity, API @ 60°F	32.5	31.8	31.0	30.5	30.0
Maximum Allowable Film Temp., F.	575	600	630	690	750
Ramsbottom Carbon Resid, %wt	0.05	0.05	0.06	0.06	0.07
Fire Point, Deg F	440	475	510	525	550
Properties @ 260C/500F					
Heat Capacity, BTU/lb/Deg F	.660	.659	.657	.656	.655
Viscosity, cSt	.77	1.10	1.34	1.51	1.82
Vapor Pressure, mm/Hg	12	10	8	7	6

The values listed above are typical of current production and may vary within acceptable manufacturing tolerances. Some values are controlled during production, while others are provided as general reference.