

THERMOL Plus™ SYNTHETIC HEAT TRANSFER OILTypical Properties

ISO Grade Approx.	22	32	46
Viscosity, cSt			
At 40 C	18.92	30.41	47.25
At 100 C	4.24	5.84	7.87
Viscosity Index	132	139	136
Flash Point, (COC) Deg F	446	460	518
Pour Point, Deg F	-40	-35	-30
Maximum Allowable Film Temp., F.	665	675	685
Ramsbottom Carbon Resid, %wt	0.035	0.035	0.035
Fire Point, Deg F	486	500	558
Properties @ 260C/500F			
Heat Capacity, BTU/lb/Deg F	.730	.729	.727
Viscosity, cSt	.84	1.47	1.52
Vapor Pressure, mm/Hg	10	8	6
Specific Gravity	0.8324	0.8373	0.8473
Gravity, API @ 60 F	38.5	37.5	36.5

The values shown are typical of current production. Some are controlled in the manufacturing process, while others are not. All of them may vary within tolerable ranges.

These synthetic heat transfer oils are formulated to meet the demanding service requirements of circulating heat transfer systems. Thermal stability is achieved by utilizing synthetic base stocks with excellent additive chemistry for outstanding and oxidation resistance at sustained operating temperatures up to 625°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, reduce vapor lock in circulating pumps and diminishes 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 625°F for closed systems and 425°F for open systems.