



Heat transfer is the transition of thermal energy from a hotter mass to a cooler mass. When an object is at a different temperature than its surroundings or another object, *transfer of thermal energy*, also known as *heat flow*, or *heat exchange*, occurs in such a way that the body and the surroundings reach thermal equilibrium; this means that they are at the same temperature. Heat transfer always occurs from a higher-temperature object to a cooler-temperature one as described by the second law of thermodynamics or the [Clausius](#) statement.

Where there is a temperature difference between objects in proximity, heat transfer between them can never be stopped; it can only be slowed.

HYTERMOL is a high quality heat transfer oil possessing low vapour-pressure, good and high thermal conductivity.

The excellent thermal stability of the fluid gives long life, and the low viscosity characteristics ensure good heat transfer and ease of circulation at start up.

HYTERMOL is recommended for non-pressurized, closed liquid-phase heating systems operating at bulk-fluid temperatures up to 320°C.

It is employed in a wide range of manufacturing processes, and also for space heating drying, steam generation and as an alternative to electricity in applications such as die heating, and where products such as bitumen require to be heated at the time of application.

HYTERMOL is used for operation at bulk fluid temperatures up to 320°C and maximum heater skin temperature of 340°C.

If these temperatures are exceeded, the fluid's life is shortened by cracking and its characteristics are altered.

It is recommended that fluid be sampled and analyzed at least once a year, to ensure that they continue satisfactorily in service.

- ▣ Long, maintenance free service
- ▣ Consistently high heat transfer performance
- ▣ Cost effective



Specific Gravity @ 60°F	0.856
Color, ASTM D1500	L 1.0
Flash Point (COC), °C	221
Autoignition Temperature, ASTM E659, °C	360
Pour Point, °C	-40
Viscosity,	
	cSt @ 40°C 30
	cSt @ 100°C 5.1
Viscosity Index	108
Carbon Residue, ASTM D524, wt %	0.17
Specific Heat, Btu/lb-°F)	
	@ 0°F/(-18°C) 0.418
	@ 200°F/(93°C) 0.515
	@ 400°F/(204°C) 0.612
	@ 550°F/(288°C) 0.685
Vapor Pressure @ 260°C (500°F), mm Hg	8