

## HEATRANS N100

High performance heat transfer fluid

**MaxPro1 Heatrans N100** is a heat transfer fluid of higher viscosity. It is formulated from selected highly refined, hydrotreated base stocks, chosen for their ability to provide superior performance in heat transfer systems. Its higher density and relatively low viscosity at elevated temperatures increase the effectiveness in providing heat transfer in many applications. In addition, when it eventually degrades, it inherently resists fouling caused by thermal cracking.

**Heatrans N100** is characterised by its excellent low pour point, good thermal stability and superior heat transfer performance. It is non-toxic and non-corrosive. It gives maximum oil life when an efficient fluid heater with good pump circulation that ensures the film temperatures on the heater surfaces do not exceed 320°C, is maintained.

**Note:** The oil life of a heat transfer fluid depends also on the design and usage of the system. If it is well designed and not subjected to abnormal workloads, the oil can be used for long periods of time.

It is important to monitor oil condition regularly as rates of change in physical characteristics are more significant than actual values. The properties that should be monitored are viscosity, acidity, flash point (open and closed) and insoluble content.

All air must be completely vented from the system before full temperature is imposed.

### APPLICATIONS

**MaxPro1 Heatrans N100** is recommended for use in indirectly heated closed heat transfer systems where the oil is circulated in a pumped system.

- Closed, indirect heating and cooling systems equipped with expansion tanks in all kinds of industrial processes operating at bulk oil temperatures up to 315°C such as textile manufacturing, chemical and process plants.

### FEATURES AND BENEFITS

- Excellent solvency keeps oxidation products in solution. It prevents the accumulation of sludge and deposits.
- Outstanding low temperature performance ensures smooth start up even in winter weather conditions.
- Exceptional resistance to thermal cracking and decomposition enables this oil to perform well up to a maximum bulk oil temperature of 315°C, with minimal interference in the heat transfer capability.



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- Non-corrosive formulation ensures the protection of the internal surfaces of steel and copper in the system.
- Non-toxic for easier disposal.

## TYPICAL PROPERTIES

Grade	Test Method	Heatrans N100
Product Code		<b>6145</b>
Density @ 15°C, kg/l	ASTM D4052	0.915
Viscosity, cSt	ASTM D445	
@ 20°C		478
@ 40°C		108
@ 100°C		8.78
@ 150°C		3.02
@ 200°C		1.52
@ 300°C		0.66
Flash Point COC, °C	ASTM D92	220
Fire Point, °C	ASTM D92	250
Pour Point, °C	ASTM D97	-33
Neutralization Number, mg KOH/g	ASTM D974	0.01
Coefficient of Thermal Expansion, per °C	-	0.00065
Copper Corrosion	ASTM D130	1b

## AVAILABLE SIZE AND PART NUMBER

	18L	200L
Heatrans N100	6145-18	6145-200

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