



APPLICATIONS

Eni Alaria 3 R is a high performance product suitable for use as a fluid for the transfer of thermal energy in diathermic systems. Formulated with highly refined base oils, it is characterized by excellent oxidative stability and excellent resistance to thermal cracking at the operating temperatures for which it is recommended.

Eni Alaria 3 R can be used in both 'open' and 'closed' vessel systems with forced circulation.

In modern closed systems, appropriately designed and under controlled conditions, in the absence of air and at atmospheric pressure or in pressurized systems in inert gas, the maximum operating temperatures are:

- Maximum temperature of the oil mass (max bulk temperature): 260°C
- Maximum wall temperature (max film temperature): 280°C

In open systems, the presence of air affects the thermal stability of the product, therefore the maximum temperature of the oil mass is 180°C.

If the oil is used at temperatures higher than those recommended, it will be subject to degradation phenomena which could cause the formation of vapor bubbles in the circuit and a significant lowering of the flash point, hence reducing the life of the oil.

CUSTOMER ADVANTAGES

- It guarantees optimal heat transmission thanks to the high heat exchange properties in conditions of forced circulation.
- It helps to keep the formation of sludge and deposits under control thanks to the high resistance to thermal cracking.
- It improves operational efficiency thanks to its thermo-oxidative stability.
- It guarantees rapid and effective water separation thanks to its excellent demulsibility.





CHARACTERISTICS

Properties	Method	Unit	Typical
Appearance	-	-	clear
Density at 15°C	ASTM D 1298	kg/m ³	875
Viscosity at 40°C	ASTM D 445	mm ² /s	32
Viscosity Index	ASTM D 2270	-	105
Flash point COC	ASTM D 92	°C	222
Pour point	ASTM D 97	°C	-9

WARNINGS

- Do not exceed recommended operating temperatures.

