

# eni Alaria S ID



eni Alaria S ID is a synthetic heat transfer fluid based on alkyl benzene. It is a better heat transfer fluid as compared to any mineral oil based thermic fluids due to its special chemistry.

## CHARACTERISTICS (TYPICAL FIGURES)

### eni Alaria S ID

Appearance	-	Straw Yellow Liquid
Density at 15°C	kg/L	0.862
Viscosity at 40°C	cSt	21.71
Viscosity at 100°C	cSt	4.16
Viscosity at 200°C	cSt	1.17
Viscosity at 300°C	cSt	0.58
Flash Point COC	°C	206
Initial Boiling Point	°C	330
Auto Ignition Point	°C	340
Pour Point	°C	-54
TAN	mg KOH/g	0.02
CCR	%wt	Nil

## PROPERTIES AND PERFORMANCE

- It has excellent oxidation and thermal stability even at high temperature, thus will extend oil operating time.
- It has very low (nil) tendency to carbonization. It has also ability to dissolve carbon deposits at heat transfer area to provide better heat transfer and better fuel economy.
- Its good viscosity-temperature characteristics will give lower energy consumption during heating process.
- It has very low pour point, thus will need low power consumption on pump while starting the system on cold condition.
- It is miscible and compatible with all portion of mineral oil.

## APPLICATIONS

eni Alaria S ID can be used in all "open" or "closed" type units. In closed well-designed systems, in absence of air and at atmospheric pressure, the bulk oil temperature should not exceed 320°C and the temperature of the oil film should not exceed 360°C.

Operating temperature of eni Alaria S ID should be at least 15 to 20°C below maximum bulk temperature to get optimum lifetime. For best life, the recommended temperature for continuous operation is under 300°C.

At higher working temperatures, oil life will be shortened because the rate of thermal degradation increases markedly as temperatures rise above the recommended limit.

eni Alaria S ID is suitable for heat transfer medium in heating and combined heating-cooling systems.

When eni Alaria S ID is used in open systems, the bulk oil temperature should not exceed 180°C.