

BAINOXINE 32

Inhibited mineral oil for heat exchanger

DESCRIPTION

BAINOXINE 32 is recommended as coolant circuit in the heating and temperature control facilities. It can be used in industrial plants.

BAINOXINE 32 remains healthy for several years, while supporting high temperatures. It is very resistant to heat. It is not be subject to coking, and does not develop sludge. It helps to keep soluble any potential residues coming from the heater, thus preventing them from clogging and thus preventing a drop of the heating capacity.

ADVANTAGES / PROPERTIES

- Excellent thermal stability, does not make deposits
- High capacity of heat calories transfer
- Very high resistance to oxydation.
- High boiling point at normal pressure
- Low viscosity enabling a good circulation speed
- No negative influence on the materials of the installation

APPLICATIONS

Operating limits are defined by two specific characteristics :

Upper limit

- . For the boiling point.
- . The temperature in the begining of the cracking phase.

Lower limit

- . The viscosity at low temperature.
- . The limits set by the manufacturer of the pump specifying the maximum viscosity in relation to the minimum operating temperature.

In these applications **BAINOXINE 32**, may be suitable:

Operating range from - 10 to + 310 ° C
For facilities under severe use.

BAINOXINE 32 has proved its effectiveness in extreme conditions. In installations where the temperature control appliances are regularly maintained and where the maximum temperature of use is not exceeded, the life of the oil may reach several years.

BAINOXINE 32 is characterized by an excellent viscometric behavior with respect to temperature. Starting the installation is possible at low temperatures. At high temperatures, **BAINOXINE 32** remains sufficiently viscous to ensure proper lubrication of rolling bearings of pumps and other lip seals.

It should be noted that the temperature control devices only work correctly if the turbulence on the "places" of the heat exchange is sufficiently high. There is turbulence if the Reynolds number is greater than 2300. In practice, it is necessary to achieve a number REYNOLDS > 10000. Many equipment manufacturers are using centrifugal pumps, and the maximum viscosity is 400 mm²/s (cSt). The expansion tank must be sized so that it can contain all the expansion of the product and so that in case of cold, the level does not fall below the inlet of the expansion tank.

In the case of installations operating by natural circulation, the heater power must not exceed 1.8 Watt/cm². The heater must be completely submerged, but should not interfere with the natural flow of the oil circulation. Indeed, the oil which would be heated without moving, would deteriorate quickly and cause premature aging of the entire bath.

TECHNICAL CHARACTERISTICS

AVERAGE CHARACTERISTICS	UNIT	AVERAGE VALUES	METHODS
Classification		ISO-L-L-QC	ISO 6743-12
Colour		Clear Yellow / Orange	Visual
Density at 20°C	kg/m ³	870	NFT 60101
Kynematic viscosity at 40°C	mm ² /s	32	NFT 60100
Kynematic viscosity at 100°C	mm ² /s	5,5	NFT 60100
Flash Point	°C	230	NFT 60118
Temperature range of use	°C	-10 à 310	
Maximum wall temperature	°C	320	



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