

DIATHERM

Circuits with Diathermal Oil

REV.1 OF MAY /2013

LEVELS OF QUALITY

The lubricants DIATHERM satisfy the following requirements of oil specification for heat transfer:

- DIN 51522 Q

DESCRIPTION

Oils of the series Diatherm show an excellent thermal stability and a very high resistance to oxidation; thanks to this feature they can be used for long periods of time at high temperatures.

A high thermal conductivity and a low viscosity provide a heat transfer at high speeds and with low energy consumption of water pumping.

Furthermore, they protect the iron and copper components from rust and corrosion.

In this way the air trapping which causes the unpleasant foaming phenomenon can be avoided.

The operator's check must guarantee a proper plant maintenance and a regular drainage of the same to prevent that the oil is subject to moisture contamination.

Please remember that the temperature of the oil surface in contact with air must never exceed 105°C.

TYPICAL FEATURES*

ISO VG	20	32	32/S	100
Density at 15°C.Kg./dm ³ ASTM D1298	0.872	0.872	0.875	0.890
Viscosity at 40°C.cSt ASTM D445	17 to 19	28.8 to 35.2	29 to 33	90 to 110
Viscosity at 100°C.cSt ASTM D445	3.6	5.2	5.2	10.5
Viscosity Index ASTM D2270	100	105	100	100
Flammability V.A.°C ASTM D92	190	216	220	250
Pour Point °C ASTM D97	-9	-9	-9	-6
Water Karl Fischer ppm ASTM D 1744	80	80	80	80
Operating temperature:				
Bulk Temperature	260 °C	250 °C	250 °C	240 °C
Film Temperature	290 °C	280 °C	280 °C	270 °C

*The above mentioned values are indicative of production average values and are not an integral part of the specification.

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