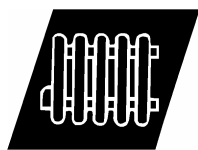


# JARYTHERM<sup>®</sup> AX 320



Lubrication

Synthetic heat transfer fluid, made from a blend of mono and di xylil-xylene isomer.

## UTILISATIONS

Heat transfer installations by fluid circulation

- **JARYTHERM<sup>®</sup> AX 320** is recommended for use in circulating fluid heat transfer systems. Its operating range extends from -10°C to +310°C without air contact. It is recommended for use in the range +200 to +300°C where its stability is much higher than conventional mineral oils and benzene alkylates, making it particularly economical.

## SPECIFICATIONS

- ISO 6743/12 class L-QC

## ADVANTAGES

Long life time  
Economy

Productivity's keeping

Others

- **Good resistance to thermal cracking**  
This allows it to be used at high temperature without degradation of the fluid or deposit formation. Degradation is due to excessive heating of the boundary layer and leads to the formation of light fractions that give a lower flash point and make the installation less safe, and heavy, carbon-rich fractions that throw deposits which foul pipes and increase energy consumption.
- **Good oxidation resistance**  
Oxidation resistance ensures that **JARYTHERM<sup>®</sup> AX 320** has a long life. It is recommended that the expansion tank should contain a nitrogen blanket.
- Insoluble in water
- Very good solvent capability
- Compatible with all common on heat transfer fluids.

TYPICAL CHARACTERISTICS	METHODS	UNITS	JARYTHERM <sup>®</sup> AX 320		
			40 °C	200 °C	300 °C
Specific density	ISO 12185	kg/m <sup>3</sup>	0.980	0.860	0.786
Kinematic viscosity	ISO 3104	mm <sup>2</sup> /s	9.3		
Specific heat capacity		kJ/kg °C	1.93	2.37	2.64
Thermal conductivity		W/m °C	0.156	0.126	0.108

Above characteristics are mean values given as an information.

TYPICAL CHARACTERISTICS	METHODS	UNITS	JARYTHERM <sup>®</sup> AX 320
Flash point OC	ISO 2592	°C	160
Fire point	ISO 2592	°C	180
Pour point	ISO 3016	°C	- 45
Boiling point (under 760 mm of mercury)		°C	322
Operating range (without air contact)			
- in the mass		°C	- 10 / + 350
- in the film		°C	+ 340

Above characteristics are mean values given as an information.

A few useful conversion factors:  
1 Kcal/kg. °C = 4184 J/Kg. °C  
1 Kcal/m.h. °C = 1.162 W/m. °C  
1 mm Hg = 133 Pa

**JARYTHERM<sup>®</sup> AX 320** is registered trademark of ARKEMA.

TOTAL LUBRIFIANTS  
Industrie & Spécialités  
28-11-2007 (supersedes 16-07-2001)  
JARYTHERM<sup>®</sup> AX 320  
1/1



This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from [www.quick-fds.com](http://www.quick-fds.com).