

TECHNICAL DATA SHEET

AIMOL Hydrotech HFDR 46

Fire resistant hydraulic fluid

DESCRIPTION

AIMOL Hydrotech HFDR 46 is a hydraulic fluid with high flash point based on a synthetic triaryl phosphate ester fluid providing high chemical stability and good oxidation resistance. The fluid can be applied as hydraulic fluid whenever operating close to heat source. **AIMOL Hydrotech HFDR 46** is self-extinguishing, non-aqueous hydraulic fluid that does not support its own combustion.

APPLICATION

- Steel & aluminum furnaces
- Die casting
- Compressors
- Hydraulic systems
- Suitable seals for use are Viton, PTFE and Butyl rubber

BENEFITS

- Self extinguishing properties
- Superior thermal stability
- Good hydrolytic stability
- Anti wear performance
- Excellent lubrication
- Excellent oxidation resistance
- Fire retardant properties

TYPICAL FIGURES

Parameter	Test Method	Hydrotech HFDR 46
Appearance		Clear transparent
Fluid type		Triaryl phosphate ester
ISO viscosity grade, cSt	ISO 3448	46
Viscosity @ 40 ºC, cSt	ISO 3014	42-48
Viscosity index		25
Density @ 20 °C, g/ml	ISO 3675	1,15
Flash point, min, ºC (Cleveland Open Cup)	ISO 2592	245
Pour point, max, ºC	ISO 3016	-17
Acid number, mg KOH/g	ISO 6619	0,06
Evaporation loss wt % 22 hours @ 150 ºC		1.5
Boiling point, ºC @ 760 mm Hg		416
Water content, % wt	ISO 760	0,05
Specific heat @ 38 ºF, btu/lb/ºC		0,376
Specific heat @ 150 ºF, btu/lb/ºC		0,442
Coefficient of thermal expansion 38 ºC (ml/ml ºC)		0,0003
Heat of combustion (btu/lb)		13,459
• 4-ball wear test Scar dm, 40 kg, mm • 4 ball wear test Scar dm, 1 kg, mm		0,54 0,20
ASTM rust test Procedure A		Pass
Surface tension (dyn/cm) @ 20 ºC		1,551

TECHNICAL DATA INFO LINE

Should you require additional information or advice on AIMOL products, please contact us as per the details below.

HEALTH AND SAFETY

AIMOL Hydrotech HFDR 46 has no adverse health effects provided it is used as directed.

Typical figures as indicated may vary per production cycle and can change at manufacturers' option. Specifications, however, are guaranteed. Because of continuous product research and development, the information within this data sheet is subject to change without any notification. Although every effort is made to ensure accurate information, A.I.M. bv accepts no liability for any loss or damage suffered caused by the incorrectness and/or incompleteness of this text, and as a result of using this product for any application other than explicitly stated in this data sheet.

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