HYDRANSAFE HFDU 46



Lubrication



Biodegradable fire resistant hydraulic fluid.

APPLICATIONS

Hydraulic oil

- HYDRANSAFE HFDU 46 is an ester-base biodegradable and fire-resistant, high-performance hydraulic fluid.
- HYDRANSAFE HFDU 46 is recommended for hydraulic equipment operating in locations comprising a fire risk such as iron and steel works (coking plants, blast furnaces, continuous casting), mines, etc... The use of HYDRANSAFE HFDU 46 lessens the serious risks presented by recourse to a mineral oil on the occasion of rupture of a hose or when a leak gives rise to oil mist, in the immediate vicinity of a flame, a part in the process of melting or a switch cupboard.
- HYDRANSAFE HFDU 46 is especially recommended when there is the • possibility of contamination of waters : offshore, mines.

SPECIFICATIONS

- International specifications | ISO 6743/4 HFDU
- - ISO 12922

APPROVAL

 FACTORY MUTUAL in accordance with FM Approval Standard 6930 -"Flammability classification of Industrial Fluids".

ADVANTAGES

- With its considerable fire resistance properties must be be associated its exceptional lubricating properties which guarantee a substantial reduction in wear and therefore a longer service life of the hydraulic components.
- High flash point and high spontaneous ignition temperature.
- Low pour-point providing goood performances at low temperature.
- Very high natural viscosity index guaranteeing a viscosity constantly adapted to the temperature range in which the fluid must be used.
- Very good anticorrosion properties in relation to ferrous and non-ferrous metals making up a hydraulic circuit.
- Very good antioxidation power : enhanced service life.
- The product does not represent a danger to health and is biodegradable.
- Limit temperature of use 120°C.

TOTAL LUBRIFIANTS Industrie & Spécialités 10-09-2007 (Annule et remplace version du 07-03-2007) **HYDRANSAFE HFDU 46** 1/2





METHODS	UNITS	HYDRANSAFE HFDU 46
ISO 3675	kg/m ³	920
ISO 3104	mm²/s	1580
ISO 3104	mm²/s	47.5
ISO 3104	mm²/s	9.35
ISO 2909		185
ISO 9120	min	4
ISO 6247	ml/ml	< 50/0
ISO 3016	° C	- 42
ISO 2592	° C	310
ISO 2592	° C	358
ASTM 2155	° C	> 420
OECD 301B	-	Ultimately biodegradable
	ISO 3675 ISO 3104 ISO 3104 ISO 2909 ISO 9120 ISO 6247 ISO 3016 ISO 2592 ISO 2592 ASTM 2155	ISO 3675 kg/m ³ ISO 3104 mm²/s ISO 9120 min ISO 6247 ml/ml ISO 3016 ° C ISO 2592 ° C ISO 2592 ° C ASTM 2155 ° C

Above characteristics are mean values given as an information.

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TOTAL LUBRIFIANTS

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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 <u>www.quick-fds.com</u>.