

# HYDRANSAFE HFDU 68



Lubrication



Fire resistant hydraulic fluid and biodegradable.

## APPLICATIONS

### Hydraulic oil

- **HYDRANSAFE HFDU 68** is an ester-base, high-performance and fire resistant hydraulic fluid.
- **HYDRANSAFE HFDU 68** is designed for hydraulic equipments 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 68** 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 68** 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, is associated 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 good 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 oxidation stability: enhanced service life.
- The product is not expected to produce adverse effects on health.
- Maximum operating temperature is 120°C.
- Biodegradable.



TOTAL

TYPICAL CHARACTERISTICS	METHODS	UNITS	HYDRANSAFE HFDU 68
Density at 15°C	ISO 3675	kg/m <sup>3</sup>	933
Kinematic viscosity at - 20°C	ISO 3104	mm <sup>2</sup> /s	2911
Kinematic viscosity at 40°C	ISO 3104	mm <sup>2</sup> /s	71.6
Kinematic viscosity at 100°C	ISO 3104	mm <sup>2</sup> /s	12.9
Viscosity index	ISO 2909	-	184
Air release at 50°C	ISO 9120	min	6
TAN	ISO 6618	mgKOH/g	1.1
Pour-point	ISO 3016	° C	- 42
Water content	ISO 760	ppm	< 500
Rust prevention test	ISO 7120	-	Pass
Flash point V.O.	ISO 2592	° C	330
Fire point	ISO 2592	° C	358
Auto ignition temperature	ASTM 2155	° C	450

Above characteristics are mean values given as an information.

**TOTAL LUBRIFIANTS  
INDUSTRIE**

03-07-2015 (supersedes 04-11-2009)

HYDRANSAFE HFDU 68

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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 [www.quick-fds.com](http://www.quick-fds.com).