

# HYDRANSAFE HFDU 46



*Lubrication*



**Biodegradable fire resistant hydraulic fluid.**

## APPLICATIONS

### Hydraulic oil

- z **HYDRANSAFE HFDU 46** is an ester-base biodegradable and fire-resistant, high-performance hydraulic fluid.
- z **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.
- z **HYDRANSAFE HFDU 46** is especially recommended when there is the possibility of contamination of waters : offshore, mines.

## SPECIFICATIONS

### International specifications

- z ISO 6743/4 HFDU
- z ISO 12922

## APPROVAL

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

## ADVANTAGES

- z 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.
- z High flash point and high spontaneous ignition temperature.
- z Low pour-point providing good performances at low temperature.
- z Very high natural viscosity index guaranteeing a viscosity constantly adapted to the temperature range in which the fluid must be used.
- z Very good anticorrosion properties in relation to ferrous and non-ferrous metals making up a hydraulic circuit.
- z Very good antioxidation power : enhanced service life.
- z The product does not represent a danger to health and is biodegradable.
- z Limit temperature of use 120°C.

**TOTAL Specialties USA, Inc.**

Linden, NJ 07036  
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1-800-323-3198  
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HYDRASAFE

7-2016

This lubricant must be applied as recommended and used for the application for which it was designed. TOTAL Specialties USA, Inc. will have no responsibility for any injury to persons or property resulting from misuse or misapplication of the lubricant. A safety data sheet conforming to the OSHA Hazard Communication Standard 29 CFR Section 1910.1200 can be downloaded at [www.totalspecialties.com](http://www.totalspecialties.com). Copyright 2016 All rights reserved.



TYPICAL CHARACTERISTICS	METHODS	UNITS	HYDRANSAFE HFDU 46
Density at 15°C	ISO 3675	kg/m <sup>3</sup>	920
Kinematic viscosity at - 20°C	ISO 3104	mm <sup>2</sup> /s	1580
Kinematic viscosity at 40°C	ISO 3104	mm <sup>2</sup> /s	47.5
Kinematic viscosity at 100°C	ISO 3104	mm <sup>2</sup> /s	9.35
Viscosity index	ISO 2909		185
Air release at 50°C	ISO 9120	min	4
Foaming seq.1	ISO 6247	ml/ml	< 50/0
Pour-point	ISO 3016	° C	- 42
Flash point V.O.	ISO 2592	° C	310
Fire point	ISO 2592	° C	358
Auto ignition temperature	ASTM 2155	° C	> 420
Biodegradability	OECD 301B	-	Ultimately biodegradable

Above characteristics are mean values given as an information.

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