

# HYDRO FIRE HFAE

HFA SAFETY HYDRAULIC FLUID



## APPLICATIONS

**HYDRO FIRE HFAE** is highly recommended for all hydraulic fluid installations operating in an atmosphere where there is a risk of fire (near sources of heat or highly flammable materials), especially in the event of accidental leaks of pressurised hydraulic fluid.

**HYDRO FIRE HFAE** meets the safety requirements in mines, the steel industry, metalworking, plastics processes, the glass industry, as well as meeting the safety requirements applicable to industrial oven doors and molten metal casting machinery.

## BENEFITS

- Ensures good protection against corrosion
- Compatible with metals commonly used in hydraulic components and inner coatings for tanks.
- In a typical usage case of storing emulsion, at the typical recommended concentration of 2.5%, the inner coating of the tarpaulin won't be damaged.
- Good emulsion stability, even at the minimum concentration of 1% in water, no phase separations
- Compatible with the seals used in hydraulic systems without load sensing, such as seals made with Buna rubber, neoprene, butyl, nitrile, PTFE and Viton.

## PRECAUTIONS FOR USE

Can be used at operating temperatures between +5 °C and +55 °C.

## PERFORMANCES

Practical tests conducted during operation and on hydraulic benches, in comparison with other fluids, highlighted the performances offered by **HYDRO FIRE HFAE** which meets key current specifications:

### PERFORMANCE LEVELS

CETOP RP 77 H Category HFAE1  
 ISO 7745 Category HFAE  
 ISO 6743 Part 4 Category HFAE  
 AFNOR NF E 48602 Category HFAE  
 AFNOR NF E 48603 Category HFAE

## CHARACTERISTICS

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA
Concentrate density at 20 °C	kg/m <sup>3</sup>	NFT 60172	918
Concentrate ignition temperature in vacuum	°C	NFM 07019	> 100



CHARACTERISTICS:

Ready-to-use emulsion: 2.5% in water with hardness of 50°TH

	UNITS	METHODS	TYPICAL DATA
pH	-	-	9.2
Toxicology testing: Total after moderation	-	7 <sup>th</sup> report 4.2	15
Anti-corrosive capacity	-	7 <sup>th</sup> report 5.9.1	Pass
Appearance of the emulsion	-	7 <sup>th</sup> report 5.2.1	145
Seal durability	-	7 <sup>th</sup> report 5.1.0	Pass

The typical characteristics are provided for indicative purposes only

HEALTH, SAFETY AND ENVIRONMENT

Disposal must be carried out in accordance with applicable regulations pertaining to the disposal of used machining fluids.

Use-by date: Manufacturing date + 12 months.

Must be stored in an environment that is sheltered from FROST and WEATHER

Our technical department is available to provide advice if needed.

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