

# HYDRANSAFE HFA E3



## Lubrication



Water-emulsifying hydraulic fluid concentrate without formaldehyde.

## APPLICATIONS

### Hydraulic fluid

- HYDRANSAFE HFA E3 is a water emulsifying hydraulic fluid concentrate.
- HYDRANSAFE HFA E3 is dedicated to the lubrication of hydraulic circuits when for safety reasons fire resistant HFA type fluids are required (furnaces, mould injection machines, continuous casting units, mines, steel mills, foundries...).
- Recommended proportions : 3 to 5% in a soft water (TH < 10°F).
- Operating temperature range : + 5 to + 55°C.

## SPECIFICATIONS

### International Specifications

- ISO 6743/4 - HFAE
- ISO 12922
- HYDRANSAFE HFA E3 is homologated by Hilleader and SMS Group

## ADVANTAGES

- Very easy implementation by pouring HYDRANSAFE HFA E3 into a good quality water.
- Forms with water a very stable milky emulsion. Excellent stability overtime.
- Good antiwear properties.
- Excellent anti foam properties.
- Good anti-corrosion, anti-rust properties even with a soft water.
- Good resistance to bacterial growth.

TYPICAL CHARACTERISTICS	METHODS	UNITS	HYDRANSAFE HFA E3	
			CONCENTRATE	3% EMULSION
Appearance	Visuelle	-	Clear	Milky white
Density at 15°C	ISO 3675	kg/m <sup>3</sup>	890	
Viscosity at 40 °C	ISO 3104	mm <sup>2</sup> /s	34	
pH	NFT 60 193	-		8.8
Refractometric correcting factor	-	-		1.1

Above characteristics are mean values given as an information.

**TOTAL LUBRIFIANTS**  
Industrie & Spécialités  
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HYDRANSAFE HFA E3  
1/1



This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.  
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