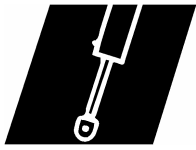


HYDRANSAFE HFAE



Lubrication



Water-emulsifying hydraulic fluid concentrate without formaldehyde.

APPLICATIONS

Hydraulic fluid

- **HYDRANSAFE HFAE** is a water emulsifying hydraulic fluid concentrate.
- **HYDRANSAFE HFAE** 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

ADVANTAGES

Conform to the legislation on formaldehyde

- Very easy implementation by pouring **HYDRANSAFE HFAE** 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 HFAE	
			CONCENTRATE	3% EMULSION
Appearance	Visuelle	-	Clear	Milky white
Density at 15°C	ISO 3675	kg/m ³	924	
Viscosity at 40 °C	ISO 3104	mm ² /s	40	
Copper Corrosion	ISO 2160	-	1a	
pH	NFT 60 193	-		9
Refractometric correcting factor	-	-	1	

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS
Industrie & Spécialités
13-05-2009 (supersedes 28-11-2007)
HYDRANSAFE HFAE
1/1



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.