

# HYDRANSAFE HFC 146



Lubrication

Fire resistant hydraulic fluid.

## APPLICATIONS

### Hydraulic fluid

- ⌘ **HYDRANSAFE HFC 146** is a high performance synthetic water-polymer, fire-resistant hydraulic fluid.
- ⌘ regulation and hydraulic circuits of Furnaces, Continuous Casting Units in the Steel and Aluminium Industry, Heat-treat Ovens for quenching operations, Drying Furnace and other applications in fire risk areas, as in mining industry...
- ⌘ Hydraulic systems of mould injection machines.
- ⌘ Operating temperature range is from - 20 °C to + 60 °C.
- ⌘ When changing from a mineral oil based hydraulic system components and to apply an appropriate cleaning of the hydraulic system.

## SPECIFICATIONS

### International Specifications

- ⌘ ISO 6743/4 HFC
- ⌘ ISO 12922 HFC
- ⌘ Fulfill the requirements according the 7. Lux. Report. Tested by LABORATOIRE ATEST.

## ADVANTAGES

- ⌘ Excellent anti-wear performance, insuring a long life of the equipment.
- ⌘ Very good corrosion protection properties.
- ⌘ Good air release and good anti-foam properties.
- ⌘ Thanks to its formulation, **HYDRANSAFE HFC 146** has a long service life and provides reduction in maintenance costs.
- ⌘ Excellent fire resistance due to high water content.
- ⌘ It is miscible with the other HFC type fluids, nevertheless, a compatibility test is advised.
- ⌘ The very good filterability of **HYDRANSAFE HFC 146** permit fine filtration.

TYPICAL CHARACTERISTICS	METHODS	UNITS	HYDRANSAFE HFC 146
Appearance	Visual		Green-yellow
Density at 20 °C	ASTM D 4052	kg/m <sup>3</sup>	1080
Viscosity at 20°C	ASTM D 445	mm <sup>2</sup> /s	99.5
Viscosity at 40°C	ASTM D 445	mm <sup>2</sup> /s	46
Viscosity index	ASTM D 2270	-	206
Pour point	ASTM D 97	°C	< - 55
pH at 20 °C	ASTM D 1172	-	8.9
4 ball wear test, scar diameter	NF 60603	mm	0.61
Spray ignition test	7 <sup>th</sup> Lux. Report	RI	1
Wick test	7 <sup>th</sup> Lux. Report		2

Above characteristics are mean values given as an information.

## TOTAL LUBRIFIANTS

### Industrie & Spécialités

28-11-2007 (supersedes 19-05-2001)

HYDRANSAFE HFC 146

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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).