

HYDRANSAFE HFC-E 46



New generation water based hydraulic fluid



TOTAL

Fire resistant and biodegradable water based hydraulic fluid (HFC-E type) boosted in antiwear and anti corrosion additives to match mineral based performances on pump tests

APPLICATIONS

Fire risk management in sensitive applications: mining, tunnelling, off shore etc...

Optimized protection of hydraulic equipment in both mobile and stationary conditions.

- **HYDRANSAFE HFC-E 46** is a **non flammable hydraulic fluid**, falling under the HFC-E classification, developed to replace standard mineral oils with equal equipment protection. It provides highly **advanced fire risk management** without compromising mechanical performances.
- **HYDRANSAFE HFC-E 46**, unlike standard water based products, is fortified in innovative antiwear additives to pass the most stringent pump tests. Results on Vickers pumps wear test exhibits a wear as low as 4 mg on ring and valves combined when the limit is 180mg for the ring and 50mg for the valves.
- **HYDRANSAFE HFC-E 46** is designed to work on all kind of hydraulics pumps in various conditions, in mobile and stationary equipment.

SPECIFICATIONS

Classifications

HFC-E hydraulic fluid

Meeting the requirements

7th Luxembourger report / DIN ISO EN 4404-1
Vickers pump test DIN EN ISO 20763

ADVANTAGES

No compromise on safety, nor performances

Biodegradable and not labelled

Compatible with water pollutions

- Thanks to its sophisticated formulation, **HYDRANSAFE HFC-E 46** is able to meet the stringent lubrication requirements of **underground mining** equipment with **superior fire protection** compared with standard HM or HFDU oils.
- **HYDRANSAFE HFC-E 46** is **ultimately biodegradable** to facilitate usage in sensitive areas such as underground mining, agriculture, tunnelling etc...
- **HYDRANSAFE HFC-E 46** will absorb water enabling usage in environments subject to high water contamination.

TYPICAL CHARACTERISTICS	METHODS	UNITS	HYDRANSAFE HFC-E 46
Viscosity at 40°C	DIN 51519	cSt	46
Density at 15°C	ISO 3675	-	1,11
Pour point	DIN ISO 3016	°C	-39°C
pH at 20°C	ISO 20843	-	9.4
FZG	DIN 51354-2	Stage	10
Vickers pump test	DIN EN ISO 20763 DIN EN ISO 15029-2:2007-02)	Mass lost after 250h	17 mg ring and valve RI – Index : class D RL – Index : class D D – Index : class A
Spray ignition test	(by read accros of ISO VG 68 grade)	-	

Above characteristics are mean values listed for purposes of information

**TOTAL LUBRIFIANTS
INDUSTRIE**
HYDRANSAFE HFC-E 46
1/1_11.02.2021



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. is obtainable via your commercial adviser www.quick-fds.com.

TOTAL Classification: Restricted Distribution

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