

Hydransafe HFC-E

Premium fire-resistant water-based hydraulic fluid with outstanding mechanical properties

APPLICATIONS

Hydraulic circuits in fire sensitive applications such as mining, tunneling, offshore.

Hydransafe HFC-E 46 & 68 are nonflammable hydraulic fluids, falling under the HFC-E classification, developed to replace standard mineral oils with equal equipment protection.

Hydransafe HFC-E 46 & 68 provide highly advanced fire risk management without compromising mechanical performances.

Hydransafe HFC-E 46 & 68 are designed to work on all kind of hydraulics pumps in various conditions, in mobile and stationary equipment.

SPECIFICATIONS

7th Luxembourg report

DIN ISO EN 4404-1

ISO 12922

DMT: Determination of spray ignition characteristics of fire-resistant fluids DIN EN ISO 15029-2:2007-2

RAG: Standard N 762010

ADVANTAGES

Excellent fire-resistant feature thanks to its water content.

Excellent anti-wear properties.

Excellent mechanical properties and enhanced pump protection.

Enhanced protection against corrosion.

Biodegradable and non-toxic product.

APPROVALS

Approved by:

GHH

Eickhoff

Robbins

Meets the requirements of:

Herrenknecht,

Sandvik

Epiroc

Joy

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 advisor or downloaded at ms-sds.totalenergies.com

TYPICAL CHARACTERISTICS

Properties	Units	Standards	Hydransafe HFC-E	
			46	68
Density at 15°C	kg/m ³	ISO 3675	1110	1110
Viscosity at 40°C	mm ² /s	DIN 51519	46	68
Pour point	°C	ISO 3016	-39	-39
pH at 20°C	-	ISO 20843	9.4	9.4
FZG	Stage	DIN 51354-2	10	10
Vickers pump test: Weigh loss after 250hrs	mg	DIN EN ISO 20763	Ring & Vane: 17	Ring: 1 Vane: 3
Spray ignition test	-	DIN EN ISO 15029 2 :2007 02	RI – index: Class D RL – index: Class D D – index: Class A	
Biodegradability	%	OECD 301B	>90	>90

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