



# Glytex® HFC 46

## High performance fire resistant hydraulic fluid

Product Data Sheet

### Product description

Glytex HFC 46 is a high performance fire resistant hydraulic fluid of type ISO 6743/4; L-HFC 46, with a water-glycol formulation, designed to meet 7th Luxembourg Report standards.

### Customer benefits

- Formulated with high level water content, designed to offer flame resistance, safety and reliability
- High level water content helps maintain effectiveness where evaporation is an issue or leakage occurs in high temperature operations
- Offers unique anti-corrosion properties towards metals commonly used in circuits as well as iron, copper, aluminium and many alloys
- Helps protect against lacquer and muddy deposit formation, promoting trouble free distributor, filter and servo valve operation
- Promotes reliable filterability and deaeration in highly sophisticated equipment with fine filtration down to three micrometers

### Applications

Glytex HFC 46 is recommended for many hydraulic systems operating in close proximity to hot surfaces or flames and where a fire hazard exists in the event of leaks of pressurised hydraulic fluid.

- **Mines**
  - tilting devices
  - elevator chariots
- **Steel Industry**
  - hydraulic systems in continuous casting
  - hydraulic systems in gates and tilting ovens
  - casting under pressure

### Product highlights:

- High water content offers flame resistance, safety and reliability
- Designed for effectiveness under evaporation or high pressure leakage
- Offers unique anti corrosion properties
- Helps protect against lacquer and muddy deposits
- Promotes fine filtration down to three micrometers

Selected specification standards include:

- 7th Luxembourg Report
- VDMA 24317
- ISO 12922

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- **Forging**

- hydraulic systems in oven doors
- hydraulic systems in tilting devices
- forging presses

Glytex HFC 46 also has several applications in marine hydraulic systems as well as welding robots

## Approvals, performance and recommendations

### Approvals

- Glytex HFC 46 is approved according to 7th Luxembourg Report: Requirements and tests of fire resistant hydraulic fluids for hydraulic load transmission and control in mining

### Performance

- VDMA 24317
- ISO 12922

### Recommendations

- Service Temperature: -20°C up to +65°C
- Recommended Service Temperature: +30°C up to +50°C

## Product maintenance and handling

In general, conventional machine lacquers can be dissolved from glycol-mixtures. We recommend 2K-epoxide-resin-lacquers.

## Typical Data

GLYTEX HFC 46	TEST METHODS	RESULTS
<b>Viscosity Grade</b>		<b>46</b>
<b>Appearance</b>	<b>Visual</b>	Turbid Red
<b>Kinematic Viscosity at</b>		
-20°C, mm <sup>2</sup> /s	DIN 51 562	1411
0°C, mm <sup>2</sup> /s	DIN 51 562	293
20°C, mm <sup>2</sup> /s	DIN 51 562	108
40°C, mm <sup>2</sup> /s	DIN 51 562	49
<b>Viscosity Index</b>	DIN ISO 2909	207
<b>Density at 15°C, kg/l</b>	DIN 51 757	1.0977
<b>Density at 20°C, kg/l</b>	DIN 51 757	1.0948
<b>Foam Seq I at 25°C, ml</b>	DIN 51 566	160/0
<b>Foam Seq II at 50°C, ml</b>	DIN 51 566	40/0
<b>Foam Seq III at 25°C, ml</b>	DIN 51 566	140/0
<b>Air Release, min</b>	ASTM D3427	14.5
<b>Membrane Filtration, 0,8 µm</b>		15
<b>Afnor Filtration test</b> (glass fibre filter N° 8 - Schleicher & Schuell, pore size: 0.75-149µm, refr. Nr: 370 119, 0.5 bar, 20°C)	NFE 48 692	1.08
<b>Afnor Filtration</b>		
<b>Filtration Index</b>		1.13



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continued

GLYTEX HFC 46	TEST METHODS	RESULTS
Cetop Stage I,%v		92.54
Cetop Stage II, %v		84.90
Four Ball wear, Scar diameter, mm	ASTM D4172	0.60
Vickers pump test total loss,	DIN 51 389	≤ 50
mgFlow Temperature, °C	DIN 51 568	≤-40
Water content, ppm(%)	Karl Fisher	456412 (45.6%)
Ash content, %	ASTM D1119	0.024

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by Chevron Lubricants; Africa, Middle East and Pakistan.

Environment, Health and Safety Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit [www.chevronlubricants.com](http://www.chevronlubricants.com)

For more information, go to [www.chevronlubricants.com](http://www.chevronlubricants.com)