

# Product INFORMATION



## HYDROTHERM 46 M

*Fire resistant, Group HFC hydraulic oil*

### Description

Fire resistant, group HFC hydraulic fluid according to DIN 51 502, aqueous polymer solution containing up to 50% water.

HYDROTHERM 46 M fulfills the requirements of the 7th Luxembourg Report, is biodegradable and free of nitrite and mono-ethyleneglycol.

### Application

Fire resistant HFC hydraulic medium according to VDMA 24 317 for use in mobile and stationary hydraulic systems, in the steel industry in rolling mills at risk of fire, in die-casting bays and in mining applications.

To ensure fire resistance, the product should not be used at temperatures above +60°C.

For more information about changing over to and using HYDROTHERM 46 M, please consult your local technical representative in your state.

### Specifications and Approvals

- | Fulfills the requirements of the 7th Luxembourg Report
- | Approved for use in the German lean coal mining industry
- | Mannesmann Rexroth
- | Danieli
- | Buhler
- | VDMA 24137
- | Mining Instruction 20747

### Benefits

- | **Approved according to the 7th Luxembourg Report**
- | **Good wear protection**
- | **High viscosity index**
- | **Low pour point**
- | **Optimized corrosion protection**
- | **Good heat conductivity**
- | **High resistance to bacteria, fungi and yeasts**
- | **Free of nitrite and MEG (mono-ethyleneglycol)**
- | **Biologically degradable**

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### Characteristics

Property	Unit	Value	Test Method
ISO viscosity grade		46	ASTM D2422
Appearance		Blue clear fluid	Visual
Kinematic Viscosity at 40 °C	cSt	46	ASTM D445
Kinematic viscosity @ 100 °C	cSt	9.5	ASTM D445
Viscosity Index		195	ASTM D2270
Density @ 15 °C	kg/L	1.084	ASTM D4052
pH		9.9	DIN 51 369
Pour Point	°C	-42	ASTM D97
<b>Rotary vane pump test</b>			DIN 51 389-2
weight loss ring	mg	< 120	DIN 51 389-2
weight loss vane	mg	< 30	DIN 51 389-2