

# Product information

## Meguin Hydraulikoel HEES 46 (biodegradable)



[www.blauer-engel.de/uz178](http://www.blauer-engel.de/uz178)

### Description

Biodegradable hydraulic fluid based on high-quality synthetic esters. Has excellent viscosity temperature behavior. Due to outstanding cold-weather properties, can be used year-round. EP additives and the polar adhesion provide very good protection against wear, rust and corrosion. Rapidly biodegradable and miscible with all mineral oil-based products. Mainly for hydraulic systems in equipment which primarily operates outside, is subjected to large fluctuations in temperature and where there is a risk of a high degree of pollution through oil leakage. Examples are mobile cranes and excavators in agriculture and forestry, floating dredgers, sluice hydraulic systems, snowcats, etc.

### Specifications and approvals:

Blauer Engel • Hydrauliköl VDMA 24568 HEES 46 • Hydrauliköl DIN 51524 Teil 2 HLP 32 • Hydrauliköl DIN 51524 Teil 2 HLP 46 • Hydrauliköl DIN 51524 Teil 2 HLP 68 • Hydrauliköl DIN 51524 Teil 3 HVLP 46

### Characteristic data

ISO viscosity class	VG 46 DIN 51519
Density at 15 °C	0,920 g/cm <sup>3</sup> DIN 51757
Viscosity at 40 °C	46 mm <sup>2</sup> /s ASTM D 7042-04
Viscosity at 100 °C	9,4 mm <sup>2</sup> /s ASTM D 7042-04
Viscosity index	194 DIN ISO 2909
Pour point	-45 °C DIN ISO 3016
Flash point	280 °C DIN ISO 2592
Demulgation characteristics at 54 °C	20 min DIN ISO 6614
Air separation capacity	<5 min DIN ISO 9120
Foaming behavior at 24 °C	30/0 ml ISO 6247
Foaming behavior at 93.5 °C	50/0 ml ISO 6247
Foaming behavior at 24 °C after 93.5 °C	30/0 ml ISO 6247
Neutralization number	0,5 mg KOH/g DIN 51558 Teil 1
Oxide ash	<0,01 g/100g DIN EN ISO 6245

### Characteristic data

Corrosion effect on steel	0-A DIN ISO 7120
Corrosion effect on copper	1-100 A3 DIN EN ISO 2160
FZG gear rig test, standard test A/8, 3/90	Schadenskraftstufe >12, Spez.Gew.Änderung <0,27 mg/KWh DIN 51354
Behavior towards nitrile rubber (NBR) seals	verträglich DIN 53538 Teil 1
Biodegradability after 21 days	> 90 % CEC L-33-T-82

### Available pack sizes

20 l Canister plastic	Part no. 8721 D-GB
60 l Drum sheet metal	Part no. 8722 D-GB
200 l Drum sheet metal	Part no. 8723 D-GB
1000 l Deposit container	Part no. 9594 D-GB