

## HIGHTEC SUNLUB® E 46

Fully synthetic, climate-friendly, high-performance multi-grade hydraulic oil for extended oil life and high system protection High-Tech mit Gutem Gewissen®

### Description

HIGHTEC SUNLUB® E 46 allows for greatly extended oil change intervals and has an excellent and durable multi-grade character. Designed for very high and highly fluctuating operating temperatures.



### Application

HIGHTEC SUNLUB® E 46 is specially developed for environmentally sensitive areas such as off-shore, construction or forestry and is also preferred in industrial facilities such as plastic injection molding machines. It is particularly suitable for heavily loaded hydrostatic drives and high-pressure hydraulic systems as well as for helical gearboxes or as circulation oil for plain and roller bearings.

### Approvals

- EATON E-FDGN-TB-002-E
- EATON Brochure 03-401-2010 Rev.1
- PARKER Denison HF-0, HF-1, HF-2, HF-6e
- Engel
- KraussMaffei
- EU Ecolabel NL/027/011
- SS 155434 AAV 46 environmentally acceptable
- H1 Registered INS-No. 1804969

### Equivalent quality in accordance with EU-law as per

- AIST 126 & 127
- CINCINNATI MACHINE P70
- DIN 51 524-3 - HVLP (TOST wet)
- German Steel SEB 181222
- ISO 11158 HV
- ISO 15380 - HEPR
- ZF TE-ML 07H

### This product is also recommended when the following filling instructions are required

- CAT-BF1, BF2
- CNH MAT 309
- Danfoss Power Solutions-520L0463
- JCMAS HK VG46W
- Komatsu Forest
- Palfinger
- Poclairn Hydraulics
- Volvo Hydraulics

### Advantages

- 100% fully synthetic
- Non-ester based
- Multi-grade character
- High protection level for the system and components
- Excellent aging stability in the presence of water
- Excellent filterability in the presence of water
- Prevents deposits, exceeds stringent manufacturer requirements
- Zinc-free and ash-free
- High shear stable viscosity index
- Significant energy saving potential
- H1 for incidental food contact registered
- EU Ecolabel certified
- SS 155434 for environmentally acceptable products certified

### Recommendation

HIGHTEC SUNLUB® E 46 is recommended for use in hydraulic systems which require hydraulic fluids according to ISO VG32, ISO VG46 or ISO VG68.



## Typical characteristics

Property	Method	Unit	Value
Density at 15 °C	ASTM D-7042	g/ml	0.84
Kinematic viscosity KV 100	ASTM D-7042	mm <sup>2</sup> /s	8
Kinematic viscosity KV 40	ASTM D-7042	mm <sup>2</sup> /s	43,8
Viscosity index	ASTM D2270	-	157
Pour point	ASTM D-97 / DIN EN ISO 3016	°C	-40
Foaming behaviour at 24°C	ASTM D 892	ml/ml	10/0
Foaming behaviour at 93.5°C	ASTM D 892	ml/ml	20/0
Foaming behaviour at 24°C to 93.5°C	ASTM D 892	ml/ml	10/0
Corrosion effect on copper	DIN 51 811	Grad	1a
Biodegradability	OECD 301 B	%	>60%
Renewable Resource Content		%	>50%
FZG A/8.3/90 (min)	DIN 51354/2	SKS	>12
Demulsifying properties at 54°C	DIN ISO 6614	min	20
RPVOT	ASTM D2272	min.	>1000
LAV	ASTM 3427		4,8
TOST	ASTM D943 / wet	h	> 1.000
Taper roller bearing shear test, Loss (20h)	CEC L-45-A-99	%	4,7
Flash point COC	DIN ISO 2592	°C	240

These characteristics are typical for current production. The data does not constitute an assurance of properties or a guarantee of suitability for a specific application. Existing legal provisions and regulations that affect handling and usage of the products must be observed by the recipient of our products. ROWE products are continuously being developed. For this reason, ROWE retains the right to change all technical data in this product information at any time without prior announcement. Our current General Delivery and Payment Conditions apply ([www.rowe-oil.com](http://www.rowe-oil.com)).

