

## 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

### The quality of this product is equivalent to EU regulations

- 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

### Additionally this product is recommended when the following filling instructions are required

- CAT-BF1, BF2
- CNH MAT 309
- Danfoss Power Solutions-520L0463
- Komatsu Forest
- Palfinger
- Poclain Hydraulics
- Volvo Hydraulics

### Benefits

- 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.



## HIGHTEC SUNLUB® E 46

### Typical characteristics

Property	Method	Unit	Value
Density at 15 °C	ASTM D-7042	g/ml	0.84
Corrosion effect on copper	DIN 51 811	Korr.-Grad	1a
Kinematic viscosity KV 40	ASTM D-7042	mm²/s	43,8
Kinematic viscosity KV 100	ASTM D-7042	mm²/s	8
Viscosity index	ASTM D-7042	-	157
Pour point	ASTM D-97 / DIN EN ISO 3016	°C	-40
FZG A/8.3/90 (min)	DIN 51354/2	SKS	>12
Biodegradability	OECD 301 B	%	>60%
Renewable Resource Content		%	>50%
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
Demulsifying properties at 54 °C	DIN ISO 6614	min	20
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 after 93.5 °C	ASTM D 892	ml/ml	10/0

The characteristics shown are typical of current production. This data cannot be constructed as a legally binding warranty or guaranty of certain product properties or of the suitability of the product for a specific application. ROWE products are continually improved. Therefore ROWE reserves the right to change all the technical data in this product information at any time without notice. All sales and deliveries shall be subject to our current General Terms and Conditions of Sale and Terms ([www.rowe-oil.com](http://www.rowe-oil.com)).

ROWE MINERALÖLWERK GMBH  
Langgewann 101, D-67547 Worms



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