

DESCRIPTION



Hydrostar HES GSE 46

**Environmentally Hydraulic oil (HEES)
based on saturated synthetic Ester**



1. APPLICATION

Hydrostar HES GSE 46 is a synthetic, rapidly biodegradable hydraulic oil (>70% in 28 days) based on saturated esters. It is designed for use under the highest requirements in mobile and stationary hydraulic systems in the construction, water, agriculture and forestry industries, where there is a risk to the environment can exist due to leaks and where a hydraulic oil according to ISO 15380 (HEES) is recommended for optimal use. Due to its high viscosity index with excellent flow properties, it can be used in a wide range of temperatures. When converting to Hydrostar HES GSE 46, the conversion guidelines according to ISO 15380 must be observed.

2. YOUR BENEFIT

- Zinc-free additives, contains no hazardous ingredients.
- Very good wear and corrosion protection and high aging resistance.
- Excellent lubricating properties and very good viscosity-temperature behavior.
- Fastbiodegradable according to OECD 301 B >70% based on saturated, synthetic esters.
- Outstanding low temperature behavior (temperature range -40°C to +90°C) and highest shear stability.

3. TECHNICAL SPECIFICATIONS

Can be used with:

- ISO 15380: HEES | ISO 11158 HV
- DIN 51524-3 HVLP 46
- Bosch Rexroth RE 90221
- FZG Test, A/8.3/90, DIN 51354 load stage 12



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Quality engineered in Germany

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4. TECHNICAL CHARACTERISTICS

Properties	Data	Units	Prüfmethode
Density at 15°C	914	g/ml	ASTM D4052
Kin. Viscosity at 40°C	48,8	mm ² /s	ASTM D445
Kin. Viscosity at 100°C	9,85	mm ² /s	ASTM D445
Viscosity index	185		ASTM D2270
Flashpoint	246	°C	ASTM D92
Pourpoint	-54	°C	ASTM D6892
FZG-Test	12		DIN 51354

5. PACKAGING

CONTENT	ART.NO.	CONTENT	ART.NO.
1000 Liter IBC	2225001	60 Liter	2225020
205 Liter	2225010	20 Liter	2225030

