

## HIGHTEC BIO HLP 46 S

Environmentally-friendly, readily biodegradable hydraulic oil based on synthetic esters for all hydraulic systems.

### Description

HIGHTEC BIO HLP 46 S is an environmentally safe alternative to mineral oil-based hydraulic oils. The product is readily biodegradable according to MITI. It is insoluble in water and is largely held in the earth's upper layers after leaks or oil spills, such as when oil leaks from a broken pipeline, and rapidly degraded there.

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

- ISO 15380

### Benefits

- Very high viscosity index, multigrade characteristics
- Very high flash point
- High operating temperatures of up to 130°C at the upper limit
- Readily biodegradable
- Environmentally-friendly

### Recommendation

HIGHTEC BIO HLP 46 S should be used wherever there is a risk of leaking hydraulic fluid entering the groundwater or wastewater. This includes all devices that operate in water purification and water protection areas or near surface water, such as:

- Wastewater treatment plants
  - Dredging vessels and floating dredgers
  - Hydraulic units in woods and fields
  - Earth-moving machines in water catchment areas
  - Pipe jacking and tunnel boring
  - Watergate lock hydraulics and stream weirs.
- HIGHTEC BIO HLP 46 S can be used for any application where oils of the following grades are already in use:

HLP 32, HLP 46, HLP 68, HVLP 46, HEES 46.

### Notices

HIGHTEC BIO HLP 46 S is miscible with mineral oils. Store the product in a dry and frost-free environment.

### Typical characteristics

Property	Method	Unit	Value
Density at 15 °C	ASTM D-7042	g/ml	0.919
Kinematic viscosity KV 40	ASTM D-7042	mm <sup>2</sup> /s	46
Kinematic viscosity KV 100	ASTM D-7042	mm <sup>2</sup> /s	9,2
Viscosity index	ASTM D-7042	-	187
Flash point	ASTM D-92 / DIN EN ISO 2592	°C	>300
Pour point	ASTM D-97 / DIN EN ISO 3016	°C	-36
FZG A/8.3/90 (min.)	DIN 51351/2	SKS	>12
Renewable Resource Content		%	>70

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)).

