



STRUB Hydrosynt HEES

Biodegradable hydraulic oils



Description

Synthetic, mineral oil-free, biodegradable and extremely shear-stable multigrade hydraulic oils.

Application

For almost all hydraulic systems elastomer compatible, especially with required environmental compatibility, hydraulic engineering, fresh water extraction, floating dredgers, water boats, sluices, food industry, cold stores, forestry, etc. For hydraulic systems of construction machinery, vehicles, machine tools, presses and other equipment. Mixing with mineral oil no longer ensures biodegradability. Hydrosynt HEES ISO 15 is a special grade and can be classified as nwg (non-water hazardous).

Features and advantages

- extremely favorable viscosity-temperature behavior (very high VI) and is equally resistant to high temperatures and cold temperatures
- excellent oxidation stability
- excellent corrosion protection
- compatible with elastomers
- does not attack seals and machine paints and has no tendency to foam formation
- very good wear protection

Specifications

| |
|------------------------------|
| HEES, DIN 51524 part 2 and 3 |
| VDMA 24568 |
| Mannesmann Rexroth RD 90221 |

Technical data

| ISO | | 15 | 22 | 32 | 46 | 68 |
|--------------------|--------------------|-------|-------|-------|-------|-------|
| Art. No. | | 32469 | 30344 | 30345 | 30488 | 30346 |
| Density at 20°C | g/cm ³ | 0.88 | 0.902 | 0.916 | 0.918 | 0.933 |
| Viscosity at 0°C | mm ² /s | 85 | 153 | 237 | 303 | 506 |
| Viscosity at 40°C | mm ² /s | 15 | 22 | 32 | 46 | 68 |
| Viscosity at 100°C | mm ² /s | 3.65 | 4.7 | 6.3 | 9.3 | 12.35 |
| Pourpoint | °C | - 56 | - 55 | - 50 | - 40 | - 40 |
| Flash point | °C | 186 | 220 | > 240 | > 300 | > 250 |

The information in this technical data sheet is based on general knowledge and application possibilities. STRUB + Co. AG is not liable for damage resulting from improper use of the products. The industry-standard measurement and production tolerances apply to the specified characteristic. Generally, no legal binding can be derived from these data. Our products are subject to continuous further development. Therefore, STRUB + Co. AG reserves the right to change all technical data in this data sheet at any time and without prior notice.



The base raw materials have been tested according to CEC-L-33-A-93 min.

Swelling test 168 hrs at 150°C:

- Fluorocarbon Volume increase
- Silicone Volume increase
- Nitrile Volume increase
- Polyacrylate Volume increase

Water hazard class

95 % degradable

1 %

1 %

2.5 %

2 %

nwg ISO 15

1 (EU) ISO 22-68

Transport

ADR/SDR

No dangerous goods

Disposal

LVA VeVA / EAK:

13 01 12

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