oelheld®
innovative fluid technology

HiPure HLPD

High-precision spindle fluid

HUTEC
human nature machine

Fine filtered special hydraulic fluid

Purity class 15/13/10 according to ISO 4406

Application
Fine filtered special hydraulic fluid with detergent (cleaning) properties for hydrostatic systems.

Description
HiPure HLPD 68 is a fine filtered, zinc-free, paraffin-based special fluid with additives for an excellent wear protection which contributes to the aging resistance and to the improvement of the gliding performance. This product has excellent detergent and dispersing properties. Further it is characterized by its outstanding corrosion protection.

Benefits
- Finely filtered according to purity class 15/13/10 (ISO 4406)
- Improved sliding behaviour
- Increased ageing stability
- Detergent and dispersing effect
- Special dispersing and water absorption capacity

Range of application
Due to the guaranteed and high purity quality, these precision spindle oils are used for the lubrication of bearings in motor and high-frequency spindles.

Specifications
Hydraulic fluid: HLPD according to DIN 51 524-2:1985
and DIN 51502,
Purity class: 15/13/10 according to ISO 4406
8 according to SAE AS 4059

Operating
Fill into the central system device without any cross-contamination with other material. Seal the bottle carefully after using. Prevent any kind of dust during the filling process. The filling nozzle has to be cleaned before each filling.

Water hazard class: WHC 1
Waste code: EAK 13 01 10

284,833 mm

Technical facts

Characteristics	HiPure HLPD 32	HiPure HLPD 46	HiPure HLPD 68	Test method
ISO-Viscosity class	32	46	68	DIN 51519
Kin. viscosity at +40 °C (mm²/s)	32	46	68	ASTM D 7042
Kin. viscosity at +100 °C (mm²/s)	5,6	7,0	8,9	ASTM D 7042
Density at +15 °C (kg/m³)	854	863	871	DIN 51757
Flashpoint COC °C min.	234	242	245	DIN EN ISO 2592
Pourpoint °C max.	-33	-28	-26	ASTM D 7346
Air release property at 50 °C min.	4	7	9	ISO 9120
Corrosion protection against steel (procedure A)	passed	passed	passed	DIN ISO 7120
Corrosive effect on copper (3h/100°C - Degree of corrosion)	1	1	1	DIN ISO 2160
Aging resistance - Increase of the neutralization number after 1000h (mg KOH/g)	< 2,0	< 2,0	< 2,0	DIN EN ISO 4263-1
Mechanical test in the FZG-gear wheel test machine A/8,3/90 (Damage power level)	12	12	12	ISO 14635-1
Mechanical test in the vane cell pump	passed	passed	passed	DIN 51389-2

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