

# MOTOREX SPINDLE LUBE



*Hyperclean 15/13/10 (ISO 4406)*

## Description

MOTOREX SPINDLE LUBE are ultra-fine filtered HLP-D hydraulic oils (DIN 51 524/T2). The purity class is specified as 15/13/10 in accordance with the ISO standard. They are characterised by excellent detergent and dispersing properties.

## Advantages

- ultra-fine filtered of purity class 15/13/10 in accordance with ISO 4406
- marked wear-reducing active ingredients
- effective EP properties
- fast air release capacity
- good anti-foaming action
- detergent action
- special dispersion capacity and water absorption capacity of up to 5 %

## Area of application

With their guaranteed high level of purity, are this hydraulic oils particularly used for lubricating bearings in high-frequency spindles.

## Specifications

Hydraulic oil HLP-D

Hydraulic oil HLP according to DIN 51524/Part 2

## Application

Fill central lubrication system directly, without any remedies and close bottle carefully after use. In addition, it must be ensured that no dirt gets into the remaining oil when topping up the central lubrication system.

## Technical datas

Properties	Unit	Test according to	Values		
Viscosity class		ISO VG	<b>32</b>	<b>46</b>	<b>68</b>
Colour		DIN ISO 2049	yellow	dark yellow	dark yellow
Density at 20 °C	g/ml	ASTM D 4052	0.868	0.875	0.882
Viscosity at 40 °C	mm <sup>2</sup> /s	DIN 51562-1	31.7	46.2	69.9
Viscosity at 100 °C	mm <sup>2</sup> /s	DIN 51562-1	5.35	6.85	8.98
Viscosity index		ASTM D 2909	101	103	100
Pour point	°C	ASTM D 5950	-27	-27	-27
Flame point	°C	DIN EN ISO 2592	200	220	225

Water hazard class: WGK 2

Waste code: EWC 130 110

The above information is subject to change without prior notice, although they are in accordance with current standards. Performance characteristics indicated are based on usual tolerances which occur during measuring and production using the latest technology. A safety data sheet is available.



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