

Universal, zinc- and ash-free hydraulic oil based on special hydrotreated base oils (MC base oils) with a high viscosity index

Description

Universal zinc- and ash-free lubricating and hydraulic oils based on specific MC base oils with a high, shear-stable viscosity index (VI > 140). These base oils are produced by a technology using a specific hydrocracking method. The oil's molecular structure is modified under high pressure and temperature using a catalyst, thus producing new oils that excel traditional lubricating and hydraulic oils in the most important respects.

Application

Demulsifying lubricating oils with a high, shear-stable viscosity index for use in the lubrication of circulation systems and bearings. Excellently suitable for all applications in mobile and stationary hydraulic systems that require the use of a HVLP hydraulic oil in accordance with DIN 51 524-3.

Special pneumatic oil is also excellently suitable for use in machine tools where water-miscible metal-working fluids are used.

Specifications

The products meet or exceed the requirements according to:

- DIN 51 524-3: HVLP
- ISO 6743-4: HV

Advantages

- **Hydrotreated base oils**
- **Low foaming, even at a water contamination of up to 3%**
- **High thermal stability and ageing resistance**
- **Excellent viscosity-temperature behaviour (multi-range character)**
- **High, shear-stable viscosity index**
- **Wide service temperature range**
- **Heavy-metal and ash-free additives (zinc- and ash-free)**
- **Very good wear protection**
- **Extended service intervals are possible**
- **Multi-purpose range of applications**



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Typical data:

Product name		32		
Properties	Unit			Test method
ISO VG		32		DIN 51 519
Kinematic viscosity at -20°C	mm ² /s	1528		DIN EN ISO 3104
at 0°C	mm ² /s	282		
at 40°C	mm ² /s	35		
at 100°C	mm ² /s	6.7		
Viscosity index	-	149		DIN ISO 2909
Density at 15°C	kg/m ³	840		DIN 51 757
Colour	ASTM	0.0		DIN ISO 2049
Flashpoint (Cleveland Open Cup)	°C	246		DIN ISO 2592
Pourpoint	°C	-45		DIN ISO 3016
Neutralisation number	mgKOH/g	0.2		DIN 51 558-1
FZG A/8,3/90 mechanical gear test rig	failure load stage	12		DIN ISO 14635-1
VKA shear stability, four-ball test: relative shear loss (viscosity reduction, V ₄₀ and V ₁₀₀) after 20h	%	< 5		DIN 51 350-6

The information contained in this product information is based on the experience and know-how in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally-valid statements about the function of our products are not possible. The information given in this product information represents general, non-binding guidelines. No warranty expressed or implied is given concerning the properties of the product or its suitability for any given application.

We therefore recommend that you consult an application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

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