

Mabanol Helium Hyd HLP 22, 32, 46 and 68 ZF

Zinc and ash-free HLP Hydraulic Fluids

Application

Mabanol Helium Hyd HLP ZF hydraulic fluids can be effectively applied in the hydraulic systems of rolling mills. Thanks to the very good demulsifying properties of the lubricant, water, which may have penetrated the lubricant, can continuously be drawn off at suitable points within the system.

Mabanol Helium Hyd HLP ZF hydraulic fluids are universally applicable in all hydraulic equipment and wherever a high level of protection against wear and ageing is required.

Properties

Mabanol Helium Hyd HLP ZF hydraulic fluids are based on mineral oil with zinc and ash-free EP additives. Only base oil yields from German solvent extraction are used for these hydraulic fluids.

Mabanol Helium Hyd HLP ZF hydraulic fluids ensure excellent protection against wear and corrosion, even at high mechanical stress, and have exceptionally good demulsifying properties.

Oxidation inhibitors give high resistance to ageing, thereby reducing maintenance costs through longer oil drain intervals. Many of the requirements are exceeded by a large margin. Mabanol Helium Hyd HLP ZF hydraulic fluids meet the requirements of the steel industry for HLP hydraulic oils.

Standards

- DIN HLP 51 524 Part 2
- HM according to 11158
- VDEh according to SEB 181 222

Approvals

- Arburg (only ISO VG 46)

Recommended for

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- Engel (only ISO VG 46)
- Krauss Maffei (only ISO VG 46)
- Voith 3625-006073/3625-008426/3625-006058/3625-006072 (only ISO VG 32)
- ZF TE-ML 04K (only ISO VG 32/ISO VG 46)

Data

	Test method	Unit	HLP Classification			
			22	32	46	68
Density at 15°C	DIN 51 757	g/cm ³	0,868	0,873	0,881	0,883
Kin. Viscosity at 40°C	DIN EN ISO 3104	mm ² /s	22,1	32,4	46,4	70,7
Kin. Viscosity at 100°C	DIN EN ISO 3104	mm ² /s	4,3	5,3	6,6	8,8
Flash point COC	DIN ISO 2592	°C	200	210	225	230
Pourpoint	DIN ISO 3016	°C	-30	-27	-24	-24
FZG test A/8, 3/90	DIN ISO 14635	SKS	11	12	> 12	> 12

Updated in January 2023

The above values may vary within the commercial limits.

Customs Tariff No.: 2710 1983