

Hydraulic Oil HLP

This high-performance hydraulic oil is crafted from premium raffinates. The base oils' exceptional thermal stability significantly slows the aging process, even at high temperatures. This helps to minimize sludge formation, enhance cleanliness, and boost the reliability of hydraulic systems. Its excellent oxidation resistance allows for extended oil change intervals. The advanced wear-protection technology is effective under both low and high load conditions. Additionally, it maintains strong corrosion protection, even in the presence of water, ensuring optimal protection for hydraulic components in all operating conditions.



Performance

+Hydrauliköl DIN 51524 Teil 2 HLP 22/32/46/68/100

Table of properties

Property	HLP 22	HLP 32	HLP 46	HLP 68	HLP 100
Density @15°C, DIN 51757, g/cm³	0.85	0.875	0.86	0.885	0.87
Viscosity @40°C, DIN 51562, mm²/s	22	32	46	68	100
Viscosity @100°C, DIN 51562, mm²/s	4.4	5.4	6.75	8.6	11.1
Viscosity Index, DIN ISO 2909	109	102	100	97	95
Flash Point °C, DIN ISO 2592	210	220	232	240	260
Pour Point °C, DIN ISO 3016	-36	-30	-27	-27	-18
Demulgation characteristics @54°C, DIN ISO 6614, min	<=20	10	<= 30	<= 30	<= 30
Foaming behaviour @24°C, ISO 6247, ml	30/0	30/0	30/0	30/0	30/0
Foaming behaviour @93.5°C, ISO 6247, ml	50/0	50/0	50/0	50/0	50/0
Foaming behaviour @24°C after 93.5°C, ISO 6247, ml	30/0	30/0	30/0	30/0	30/0
Air separation capacity, DIN ISO 9120, min	<=5	<=5	<=10	<=13	<=21
Corrosion effect on steel, DIN ISO 7120	0-B	0-B	0-B	0-B	0-B
Corrosion effect on copper, DIN EN ISO 2160	1-125 A3	1-125 A3	1-125 A3	1-125 A3	1-1215 A3
Neutralization number, DIN 51587 T1, mg KOH/g	0.5	0.5	0.5	0.5	0.5
Neutralization number after 1000 h, DIN 51587, mg KOH/g	< 2	< 2	< 2	< 2	< 2
Oxide ash, DIN EN ISO 6245, g/100g	0.16	0.16	0.16	0.16	0.16
Sulfate ash, DIN 51575, g/100g	0.17	0.17	0.17	0.17	0.17
FZG gear rig test, standard test A/8, 3/90, DIN 51354, Spez. Gew. Änderung <0.27, mg/KWh, Schadenskraftstufe,	10	11	>10	>10	12
Color/Appearance, ASTM DIN ISO 2049	L 1.5	L 1.0	L 1.5	L 1.5	L 3.0

* Characteristic values can fluctuate within the normal range. The information in this publication is based on our current knowledge and experience. They do not release the user from their own tests and trials due to possible influences during the processing and application of our products. A legally binding assurance of certain properties or the suitability for a specific application cannot be derived from our information. It is the responsibility of the recipient of our products to observe any property rights as well as existing laws and regulations.

