

HYDKÖN Hydraulic Oil HLP Serie

Product Description

HYDKÖN Hydraulic HLP is a high-performance anti-wear hydraulic oil formulated from high-quality refined mineral base stocks and advanced additive technology. Its exceptional thermal stability reduces sludge formation, improves cleanliness, and enhances the reliability of hydraulic systems. The oil ensures excellent wear protection, superior corrosion resistance, and extended service life even under demanding conditions.

Performance Benefits

- **Thermal and Oxidative Stability:** Ensures a cleaner system with extended oil and filter life.
- **Anti-Wear Performance:** Protects hydraulic components, reducing downtime and maintenance costs.
- **Corrosion Protection:** Prevents rust and corrosion even in the presence of water.
- **Demulsibility:** Separates water effectively, maintaining performance in wet conditions.
- **Wide Temperature Range:** Reliable operation in extreme temperatures (-30°C to +244°C).

Application

HYDKÖN Hydraulic HLP is suitable for use in:

- Stationary and mobile hydraulic systems.
- Industrial machinery, construction equipment, agricultural machinery (tractors, excavators), and presses.
- Systems exposed to high loads and requiring excellent anti-wear performance.
- Machines using mixed metal components and elastomeric seals (nitrile, silicone, Viton).
- Lightly loaded gear systems and bearings.

Specifications and Approvals

Daimler DBL 6721, MAN N 698, DIN 51502 classification – HLP ISO 6743/4 – Hydraulic Oils Type HM, DIN 51524 Part 2 Cincinnati Lamb (Milacron), Cincinnati Lamb (Milacron) P 68-69-70, P 68-69-70 Denison (Parker Hannafin) HF-0, HF-0 US Steel 126 & 127 Eaton (formerly Vickers), Eaton (formerly Vickers) I-286-S & M-2950-S Bosch, Bosch Rexroth RE90220.

Typical Properties

Parameter	Units	VG 22	VG 32	VG 46	VG 68	VG 100	VG 150
Density @ 15°C	g/cm ³	0.862	0.875	0.879	0.884	0.890	0.895
Kinematic Viscosity @ 40°C	mm ² /s	22.0	32.0	46.0	68.0	100.0	150.0
Kinematic Viscosity @ 100°C	mm ² /s	4.3	5.4	6.7	8.5	11.5	14.8
Viscosity Index (VI)	-	102	102	102	102	100	98
Pour Point	°C	-30	-30	-27	-27	-21	-15
Flash Point	°C	200	220	232	236	248	276
Corrosion (Copper, 3h, 100°C)	Rating	1B	1B	1B	1B	1B	1B
FZG Gear Test (A/8.3/90)	Failure Stage	12	12	12	12	12	12
Foam (Seq I, 24°C)	ml	20/0	20/0	20/0	20/0	20/0	20/0

Packaging and Handling

- Store in a clean, dry environment at ambient temperatures.
- Always consult the MSDS for safe handling and disposal.

