

PRODUCT DATA SHEET

PALFINGER HYDRAULIC OIL 22/32/46/68

PREMIUM

- High performance, zinc-based Genuine PALFINGER Hydraulic Oil for wide range of applications & temperatures. Available in ISO VG 22, 32, 46 and 68.
- Based on Group II base oil formulation with latest anti-wear additive technology, meeting highest PALFINGER Industry Standards
- Provide outstanding protection under severe mechanical and thermal stress and superior performance in PALFINGER mobile equipment and other applications subjected to a wide range of ambient or operating temperatures.



PERFORMANCE & BENEFITS

LONGER OIL LIFE → EXTENDED MAINTENANCE INTERVALS

PALFINGER Hydraulic Oil PREMIUM help extend equipment maintenance intervals and reduce equipment downtime by resisting thermal and chemical breakdown, minimizing harmful sludge formation and providing better reliability and system cleanliness through:

- An extended fluid lifetime due to latest, Group II base oil technology, with an oxidative stability of a minimum of 5.000 hours (TOST life)/400 hours RPVOT.
- Excellent resistance to breakdown in the presence of water and heat; ensuring long fluid life and reducing the risk of corrosion and rusting, especially under humid or moist conditions.
- Top in class shear stability to maintain viscosity control and minimize variations of the fluid properties throughout its service life.

EXCELLENT WEAR PROTECTION → LONGER COMPONENT LIFE

- PALFINGER Hydraulic Oil PREMIUM with its advanced additive technology protects the hydraulic system on PALFINGER equipment against wear in a wide range of climates and severe operating conditions to help system components to last longer.
- High Viscosity Index combined with outstanding shear stability help to ensure critical oil film thickness is maintained in the highly stressed components of the PALFINGER hydraulic systems.
- Designed to suit the demands of hydraulic systems well in to the future, meeting the most demanding component OEM requirements, e.g. with excellent performance acc. to the Bosch Rexroth specification RDE 90235 and approved by Bosch Rexroth in the RDE 90245 fluid rating, FZG Gear Wear test (à ISO VG 32 passing Failure Load Stage 11).

IMPROVED SYSTEM EFFICIENCY → RELIABLE OPERATIONS

- Superior cleanliness, excellent filterability and water separation, air release and antifoam characteristics to maintain or enhance the efficiency of hydraulic systems.
- Optimized friction characteristics to reduce harmful stick-slip effects.
- Formulated for exceptional foam control and excellent air release to facilitate/assure hydraulic power transfer and minimize fluid and equipment impacts of cavitation induced oxidation that can shorten fluid life.

APPLICATIONS

MOBILE HYDRAULIC SYSTEMS

- PALFINGER Hydraulic Oils is used as running in & initial fill oil in PALFINGER products. It can be used in all current and older PALFINGER equipment and generally in hydraulic and fluid power transmission systems in exposed environments subjected to wide variations in temperature.
- Due to its high viscosity index it delivers responsive/excellent performance in cold start conditions as well as under full load in heavy duty operations.
- Also suitable for marine application where ISO HV type hydraulic fluids are recommended.

PRECISION HYDRAULIC SYSTEMS

- PALFINGER Hydraulic Oil PREMIUM provides good control of fluid viscosity and excellent fluid filterability, even when contaminated, all required by modern precision hydraulic systems.
- Its superior temperature-viscosity stability compared to many ISO HV fluids supports improving the performance of such systems.

TEMPERATURE RANGE

For applications in extremely cold and exposed areas PALFINGER Hydraulic Oil EXTREME 32 is recommended, for environmentally sensitive areas the PALFINGER Hydraulic Oil BIO range. Please consult your local PALFINGER service technician for any further advice.

SPECIFICATIONS & APPROVALS

- PALFINGER Standard PNORM 04.01.03
- Bosch Rexroth Fluid Rating RDE 90245 (ISO VG 32 – 68)
- ISO 11158 (HV Fluids)
- DIN 51524-3 (HVLP Fluids)
- ASTM D6158 (HV Fluids)

PALFINGER Hydraulic Oils meet the requirements of a wide range of industry bodies & equipment manufacturers.

TECHNICAL DATA

Properties	Unit	Method	PALFINGER Hydraulic Oil PREMIUM			
			22	32	46	68
Kinematic Viscosity @ 40°C	mm ² /s		22	32	46	68
Kinematic Viscosity @ 100°C	mm ² /s		4.82	6.11	7.92	10.51
Viskositätsindex		ISO 2909	163	143	143	143
Density @ 15°C	kg/m ³	ISO 12185	833	855	857	861
Flash Point (COC)	°C	ISO 2592	210	215	220	230
Pour Point (in °C)	°C	ISO 3016	-42	-39	-36	-30

These characteristics are typical of current production, variations in these characteristics may occur.

COMPATIBILITY & MISCIBILITY

FLUID COMPATIBILITY

PALFINGER Hydraulic Oils are compatible with most other mineral oil based hydraulic fluids. However, mineral oil hydraulic fluids should not be mixed with other fluid types (e.g. bio-degradable or fire-resistant fluids).

SEAL & PAINT COMPATIBILITY

PALFINGER Hydraulic Oils are compatible with seal materials and paints normally specified for use with mineral oils.

HEALTH, SAFETY & ENVIRONMENT

Health and Safety Guidance on Health and Safety is available on the appropriate Safety Data Sheet. Protect the Environment Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

