



Paper Machine Oil XL

High performance paper machine lubricant

Product description

Paper Machine Oil XL are high performance metal-free paper machine lubricants designed to offer high-level anti-wear protection in paper machines through centralised lubrication circulating systems.

This high performance non-conventional, highly refined mineral base oil and ashless additive formulation promotes oxidation stability and extended lubricant service life under harsh, high load, high temperature and wet operating conditions.

Paper Machine Oil XL's metal-free additive formulation offers robust protection against wear, oxidation, rust and deposit formation, with good filterability and rapid water separation performance.

Customer benefits

- High viscosity index and anti-wear additives promote high load carrying and anti-wear protection under harsh operating conditions
- High performance oxidation resistance contributes long-life equipment protection and extended lubricant service life
- Offers component protection under wet conditions and rapid water separation with fine filterability, aiding trouble-free operation
- Promotes keep-clean performance and resistance to deposit and sludge formation under high temperature conditions
- Designed to aid ferrous, cuprous and other metal protection in bearings and gearboxes in the presence of harsh process chemicals
- Barium and zinc-free formulation promotes environmental protection

Product highlights

- **High load carrying and anti-wear protection under harsh operating conditions**
- **Resistance to high temperature deposit and sludge formation**
- **Rapid water separation with fine filterability**
- **Long-life equipment protection and extended lubricant service life**
- **Ferrous, cuprous and other metal protection in bearings and gearboxes**

Selected specification standards include:

DIN	
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Applications

- Paper Machine Oil XL are recommended for centralised lubrication systems including paper machines operating under severe conditions. Paper machines equipped with fine filters, super heated steam, or those susceptible to water contamination will benefit from using Paper Machine Oil XL
- Paper Machine Oil XL is designed to offer protection to circulating systems where anti-wear/EP protection and oxidation resistance is required. They are especially designed for the harsh environments of paper machine main lubrication systems where water process contaminants or/and high temperatures may rapidly deteriorate lesser products. Their ability to help keep systems clean and trouble free is particularly important in dryer sections and calender stacks
- In addition, Paper Machine Oil XL has a very high FZG rating making it very versatile and suitable for use in controlled crown rolls, suction box pumps, vacuum and white water pumps, reduction gears, and gear-head motors
- Paper Machine Oil XL is suitable where there are environmental concerns or restrictions on the presence of metals such as barium or zinc

- Paper Machine Oil XL is designed to help keep systems clean and trouble-free over extended service intervals. It allows for the reduction of the number of lubricants used in the mill and lowers the risk of cross contamination as well as minimising storage and ordering, simplifying procedures
- Paper Machine Oil XL is also recommended for use in gear drive units, pumps and self contained bearings in industrial applications
- Paper machine Oil XL satisfies the requirements of the major bearing manufacturers such as FAG and SKF

Approvals, performance and recommendations

Performance

- DIN 51524-2 (HLP)
- DIN 51517-3 (CLP)

Proven performance in Voith, Metso, Anderitz, Beloit and other paper machine manufacturers.

Typical test data

Test	Test methods	Results		
Viscosity Grade		150	220	320
Product Code		32983	32984	32998
Visc. Kinematic at 40°C	ISO 3104	149	200	301.9
Visc. Kinematic at 100°C	ISO 3104	15.5	18.44	23.78
Oxidation RBOT Min	ASTM D2272	>700	>700	>700
Flash Point, °C	ISO 2592	263	268	288
Density, 15°C Kg/l	ASTM D1298	0.885	0.886	0.8926
Cu Corrosion, 3h, 100°C	ASTM D0130	1A	1A	1A
Rust - seawater	ASTM D0665B	Pass	Pass	Pass
FZG Damaged Load, A/8.3/90	DIN 51354	>12	>12	>12

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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