



MOBIL PAPER MACHINE OIL S SERIES

Mobil Industrial , France

Synthetic Paper Machine Oil

Product Description

MOBIL PAPER MACHINE OIL S Series lubricants are high performance synthetic lubricants specifically designed for demanding industrial paper machine circulating systems. They are engineered to provide exceptional lubrication characteristics not attainable with conventional premium mineral oil-based fluids. MOBIL PAPER MACHINE OIL S Series lubricants are formulated to provide excellent protection of gears and bearings operating under severe conditions. They have a very low pour point and a naturally high viscosity index (VI) which helps ensure good low temperature start-up while maintaining excellent viscosity characteristics at very high temperatures. The low traction coefficient and high viscosity index can help result in lower energy consumption and reduced component operating temperatures.

MOBIL PAPER MACHINE OIL S Series lubricants are formulated with synthesized hydrocarbon fluid base oil technology and a proprietary additive system carefully balanced to attain high performance standards. This fluid permits the use of higher steam pressures, temperatures and machine speeds common in high output paper machines and calendar rolls. The outstanding hydrolytic stability and filterability assure excellent performance in the presence of water and the ability to retain effective filtration even at very fine filtration levels. It readily separates water and retains its color characteristics for extended periods of operation under severe conditions.

Features and Benefits

The excellent performance capabilities of Mobil Paper Machine Oil S in the area of wear protection, enhanced oxidation and chemical stability, effective rust and corrosion protection, colour stability and filterability not only prolong maintenance service intervals but improve machine performance and increase production capacity. This can result in less required maintenance and longer equipment life.

| Features | Advantages and Potential Benefits |
|---|--|
| Excellent Wide Temperature Performance | Easier start-up and improved lubrication at cold starts. Very good protection at elevated temperatures. Better control of feed rates. |
| Excellent Wear Protection | Improved bearing and gear performance. |
| Outstanding Oxidation and Thermal Stability | Lower filter replacement costs. Cleaner systems. Reduced system deposits |
| Effective Water Separation Properties | Allows easier removal of water. Reduces formation of undesirable emulsions in systems |
| Excellent Filtration Properties | Helps to keep oil lines and flow control mechanisms free of deposits. Improved oil flow and cooling performance. Lowers filter replacement costs. |
| Excellent Colour Stability | Ensuring flow meters can be easily monitored by eye so that the right flow rate is maintained to the bearings. |
| High Level Rust and Corrosion Protection | Protects gears and bearings in wet environments. Provides vapour space protection for areas of bearing and gear cavities above normally oil-wetted surfaces. |

Applications

Lubrication of severe industrial paper machine circulating systems

Application involving circulation systems operating over a wide temperature range

Circulation systems lubricating gears and bearings

Mobil Paper Machine Oil S is particularly applicable for machines where it is essential for excellent colour stability to visually monitor the oil flow rate through flow meters.

Specifications and Approvals

| This product is recommended for use in applications requiring: | 150 | 220 | 320 |
|---|------------|------------|------------|
| Valmet Paper RAU4L00659_07 (wet and dry ends) | X | X | X |
| Valmet Paper RAUAH02725_00 (synthetic oil for hydraulic rolls) | X | X | X |
| Voith Paper VS 108 5.3.1 2023-04 (wet end) | X | | |
| Voith Paper VS 108 5.3.2 2023-04 (dry end) | | X | X |
| Voith Paper VS 108 5.3.3 2023-04 (off-line coaters) | X | | |
| Voith Paper VS 108 5.3.4 2023-04 (hydraulic roll) | X | | |
| Voith Paper VS 108 5.3.5 2023-04 (shoe press) | X | X | X |
| Voith Paper VS 108 5.3.6 2023-04 (winder) | | X | |

Properties and Specifications

| Property | 150 | 220 | 320 |
|--|------------|------------|------------|
| Grade | ISO VG 150 | ISO VG 220 | ISO VG 320 |
| Density @ 15.6 C, g/ml, ASTM D4052 | 0.858 | 0.865 | 0.864 |
| Emulsion, Time to 37 mL Water, 82 C, min, ASTM D1401 | 10 | 20 | 20 |
| FZG 4-Square Load Support, Fail Stage, DIN 51354 | 12 | | |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 250 | 240 | 260 |
| Foam, Sequence I, Stability, ml, ASTM D892 | 0 | 0 | 0 |
| Foam, Sequence I, Tendency, ml, ASTM D892 | 0 | 0 | 0 |
| Foam, Sequence II, Stability, ml, ASTM D892 | 0 | 0 | 0 |
| Foam, Sequence II, Tendency, ml, ASTM D892 | 0 | 0 | 0 |
| Foam, Sequence III, Stability, ml, ASTM D892 | 0 | 0 | 0 |
| Foam, Sequence III, Tendency, ml, ASTM D892 | 0 | 0 | 0 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 20 | 27 | 36 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 150 | 220 | 320 |
| Pour Point, °C, ASTM D97 | -42 | -39 | -36 |

| Property | 150 | 220 | 320 |
|-----------------------------|-----|-----|-----|
| Viscosity Index, ASTM D2270 | 153 | 157 | 159 |

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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You can always contact our Technical Help Desk engineers on Mobil lubricants and services related questions: <https://www.mobil.fr/fr-fr/contact-us>

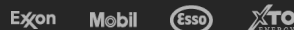
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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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