Mobil Paper Machine Oil S 220

Mobil Industrial , United Kingdom

Synthetic Paper Machine Oil

Product Description

MOBIL PAPER MACHINE OIL S 220 is a high performance synthetic lubricant specifically designed for demanding industrial paper machine circulating systems. It is engineered to provide exceptional lubrication characteristics not attainable with conventional premium mineral oil-based fluids. MOBIL PAPER MACHINE OIL S 220 is formulated to provide excellent protection of gears and bearings operating under severe conditions. It has 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 220 is formulated with synthezised 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 colour characteristics for extended periods of operation under severe conditions.

Features and Benefits

The excellent performance capabilities of Mobil Paper Machine Oil S 220 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 startsVery good protection at elevated temperaturesBetter control of feed rates
Excellent Wear Protection	Improved bearing and gear performance
Outstanding Oxidation and Thermal Stability	Lower filter replacement costsCleaner systemsReduced system deposits
Effective Water Separation Properties	Allows easier removal of waterReduces formation of undesirable emulsions in systems
Excellent Filtration Properties	Helps to keep oil lines and flow control mechanisms free of depositsImproved oil flow and cooling performanceLowers 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 environmentsProvides 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 220 is particularly applicable for machines where it is essential for excellent colour stability to visually monitor the oil flow rate through flow meters

Typical Properties

Mobil Paper Machine Oil S	220
ISO Viscosity Grade	220
Viscosity, ASTM D 445	
cSt @ 40°C	220
cSt @ 100°C	27
Viscosity Index, ASTM D 2270, min	157
Density @15°C, ASTM D 4052, kg/l	0.865
Flashpoint, °C, ASTM D 92, min	240
Demulsibility, minutes to 37 ml, 82°C	20
ASTM Rust B, ASTM D 665	Pass
Foam Sequence Tendency, ASTM D 892, ml	0/0
Pour Point, °C, ASTM D 97	-39
FZG Scuffing, DIN 51354, fail load stage	12

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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You can always contact our Technical Help Desk engineers on Mobil lubricants and services related questions: https://www.mobil.co.uk/en-gb/contact-us-technical

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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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