



Mobil DTE™ PM Series
Mobil Industrial, United States

Paper Machine Lubricants

Product Description

Mobil DTE™ PM Series products are high-quality, high-performance lubricants specifically designed for demanding industrial paper machine circulating systems. They are engineered to provide exceptional lubrication qualities while protecting system components from rust and corrosion. This is particularly important in the wet-end where water and chemical contaminants can enter the lubrication system. The Mobil DTE PM Series oils are formulated to provide maximum protection of gears and bearings operating under severe conditions. They exhibit good viscosity characteristics allowing reduced start-up to production times while maintaining excellent viscosity characteristics at high temperatures. The DTE PM Series oils provide excellent resistance to oxidation and thermal degradation, exceptional protection against rust and corrosion, and a high level of anti-wear performance.

Mobil DTE PM Series oils are formulated with select high-quality base oils and a proprietary advanced technology additive system carefully balanced to attain high performance standards. These fluids permit the use of high steam pressures, temperatures and machine speeds common in high output paper machines. Their outstanding demulsibility and filterability assure excellent performance in the presence of water and the ability to retain effective filtration even at very fine filtration levels. They readily separate water and retain their colour characteristics for extended periods of operation.

Features and Benefits

The Mobil DTE PM Series oils have proven their performance capabilities in modern high-output paper machine lubrication. Their excellent performance properties in the areas of wear protection, enhanced oxidation stability, chemical stability, effective rust and corrosion protection, colour stability, and filterability help to extend maintenance service intervals. This results in less required maintenance, longer equipment life and increased production capacity.

Features	Advantages and Potential Benefits
Exceptional Wear Protection	Improved bearing and gear performance
Outstanding Oxidation and Thermal Stability	Longer oil life Lower filter replacement costs

	Cleaner systems
	Reduced system deposits
Effective Water Separation Properties	Allows easier removal of water
	Reduces formation of emulsions in systems
Good Anti-Fatigue Performance	Reduces fatigue failures of bearings and gears
Excellent Filterability	Keeps oil lines and flow control mechanisms free of deposits
	Improved oil flow and cooling performance
	Lowers filter replacement costs
High Level Rust and Corrosion Protection	Protects gears and bearings in wet environments
	Provides protection against corrosion in a wet and humid environment

Applications

- Lubrication of industrial paper machine circulating systems
- Application involving circulation systems operating over a wide temperature range
- Systems that must be started and brought on line quickly
- Circulation systems' lubricating gears and bearings

Typical Properties

Mobil DTE PM Series	100	150	220	320
ISO Viscosity Grade	100	150	220	320
Viscosity, ASTM D 445				
cSt @ 40° C	100	150	220	320
cSt @ 100° C	11.4	14.7	19.0	25.4
Viscosity Index, ASTM D 2270, min	95	95	95	95
FZG 4-Square Load Support, DIN 51354, fail stage	12	12	12	12
Demulsibility, minutes to 3 ml Emulsion at 82° C	10	20	20	20

Rust Characteristics, Proc A and B, ASTM D 665	Pass	Pass	Pass	Pass
Foam Sequence Tendency, ASTM D 892, ml,				
I	0/0	10/0	10/0	10/0
II	40/0	30/0	30/0	30/0
III	0/0	10/0	10/0	10/0
Copper Strip Corrosion, 3 h @ 100° C, ASTM D 130, rating	1A	1A	1A	1A
Pour Point, °C, ASTM D 97	-6	-6	-6	-6
Flash Point, °C, ASTM D 92	240	250	260	250
Specific Gravity 15.6° C/15.6° C, ASTM D 1298	0.884	0.888	0.889	0.892

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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Exxon Mobil Corporation
22777 Springwoods Village Parkway
Spring TX 77389

1-800-ASK MOBIL (275-6624)

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

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