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# Mobil DTE™ PM Series

Mobil Industrial, Estonia

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. The engineered to provide exceptional lubrication qualities while protecting system components from rust and corrosion. This is particularly important in the wet-end water and chemical contaminants can enter the lubrication system. The Mobil DTE PM Series oils are formulated to provide maximum protection of gears and be operating under severe conditions. They exhibit good viscosity characteristics allowing reduced start-up to production times while maintaining excellent vischaracteristics at high temperatures. The DTE PM Series oils provide excellent resistance to oxidation and thermal degradation, exceptional protection against ru 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 attai performance standards. These fluids permit the use of high steam pressures, temperatures and machine speeds common in high output paper machines outstanding demulsibility and filterability assure excellent performance in the presence of water and the ability to retain effective filtration even at very fine filtration. 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 areas of wear protection, enhanced oxidation stability, chemical stability, effective rust and corrosion protection, colour stability, and filterability help to a 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		

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## 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

### Properties and Specifications

Property	100	150	220	320
Grade	ISO 100	ISO 150	ISO 220	ISO 320
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1A	1A	1A	1A
Emulsion, Time to 3 mL Emulsion, 82 C, min, ASTM D1401	10	20	20	20
FZG 4-Square Load Support, Fail Stage, DIN 51354			12	12
Flash Point, Cleveland Open Cup, °C, ASTM D92	240	250	260	250
Foam, Sequence I, Stability, ml, ASTM D892	0	0	0	0
Foam, Sequence I, Tendency, ml, ASTM D892	0	10	10	10
Foam, Sequence II, Stability, ml, ASTM D892	0	0	0	0
Foam, Sequence II, Tendency, ml, ASTM D892	40	30	30	30
Foam, Sequence III, Stability, ml, ASTM D892	0	0	0	0
Foam, Sequence III, Tendency, ml, ASTM D892	0	10	10	10
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	11.4	14.7	19	25.4
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	100	150	220	320
Pour Point, °C, ASTM D97	-6	-6	-6	-6
Rust Characteristics, Procedure A, ASTM D665	Pass	Pass	Pass	Pass
Rust Characteristics, Procedure B, ASTM D665	Pass	Pass	Pass	Pass
Specific Gravity, 15.6 C/15.6 C, ASTM D1298	0.884	0.888	0.889	0.892
Viscosity Index, ASTM D2270	95	95	95	95

### 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.as

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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 promay not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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