

Mobil DTE PM Series

Paper Industry Circulating Oil

Product Description

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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 & 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 not only extend maintenance service intervals but improve machine performance and could increase production capacity. This results in less required maintenance and longer equipment life.

Benefits/Advantages

- Long oil life due to excellent resistance to oxidation and thermal degradation.
- Excellent keep-clean performance for system cleanliness and optimum equipment life.
- Reduced gear and bearing wear minimises maintenance and replacement costs.
- Excellent protection against rust and corrosion.
- Improved anti-fatigue properties resulting in longer bearing life.
- Excellent filterability allows the use of fine filtration to eliminate contaminants, thereby lowering overall filter costs.
- Superior demulsibility to readily separate from water in the reservoir.
- Good air release properties avoid pump cavitation and erratic operation.
- Enhanced property retention in service due to a stable additive package.



Typical Properties

Mobil DTE PM Series			
ISO Viscosity Grade	150	220	320
Viscosity, ASTM D 445			
cSt @ 40° C	150	220	320
cSt @ 100° C	14.7	19.0	25.4
Viscosity Index, ASTM D 2270, min	95	95	95
FZG Gear Test, DIN 51354, (FLS)	12	12	12
Demulsibility, minutes to 40/37/3, 82° C	10	15	15
Rust Characteristics, Proc A and B, ASTM D 665	Pass	Pass	Pass
Foam Sequence Tendency, ASTM D 892, ml,			
Seq I	10/0	10/0	10/0
Seq II	30/0	30/0	30/0
Seq III	10/0	10/0	10/0
Copper Strip Corrosion, 3 h @ 100° C, ASTM D 130,	1A	1A	1A
Pour Point, °C, ASTM D 97	-6	-6	-6
Flash Point, °C, ASTM D 92	250	260	250
Specific Gravity 15.6° C/15.6° C, ASTM D 1298	0.888	0.889	0.892

Precautions

Mobil DTE PM Series oils are manufactured from high quality petroleum base stocks, carefully blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact to skin, splashing into the eyes, ingestion or vapour inhalation. Please refer to our Imperial Oil Material Safety Data Sheet for further information.

Note: This product is not controlled under Canadian WHMIS legislation.

Due to continual product research and development, the information contained herein is subject to changes without notification. Additional important health and safety information on this product can be found in the Material Safety Data Sheet, which is available online at www.imperialoil.ca/mobil or by contacting Lubricants and Petroleum Specialities, Technical Services, Technical Help Desk: 1-800-268-3183

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