

Mobil DTE PM Series

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 not only extend maintenance service intervals but improve machine performance and increase production capacity. 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 vapour space protection for areas of bearing and gear cavities above normally oil-wetted surfaces |



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 40/37/3, 82° C | 10 | 10 | 15 | 15 |
| 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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ExxonMobil Lubricants & Specialties

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