

Mobil DTE PM – C Series

Paper Machine Lubricants

Product Description

Mobil DTE PM - C Series oils formulation is built on the Imperial Oil Teresstic N paper machine oil premium performance. Teresstic N performance was based on: excellent detergency to provide deposit control for system cleanliness; excellent sustained demulsibility providing quick water separation; extended fluid life due high temperature oxidative stability; boosted FZG gear anti-wear performance.

Mobil DTE PM - C Series products retains or enhances all the expected performance in paper machine circulating systems. Mobil DTE PM – C series oils 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 - C 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 - C Series is 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 - C Series oils technology builds on the excellent field proven performance of Teresstic N paper machine oil. Imperial Oil Research scientists developed and tested Mobil DTE PM - C in multi-machine extended field evaluation to ensure that all the enhancements to performance provide desired benefits in the machine while retaining Teresstic N historic reliability. Their excellent performance properties in the areas of system cleanliness, sustained demulsibility, 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
Excellent keep-clean performance for system cleanliness and optimum equipment life.	Detergency helps keep hot Dryer component surfaces clean, as well as the rest of the circulation system.
Exceptional gear and bearing wear protection	Improved bearing and gear performance Minimizing maintenance and replacement costs.
Outstanding Oxidation and Thermal Stability	Longer oil life Lower filter replacement costs Cleaner systems Reduced system deposits
Sustained Demulsibility providing Effective Water Separation Properties	Readily separate oil from water in the reservoir 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
Good air release properties avoid pump cavitation and erratic operation.	Ensures longer component life and reduced maintenance
Excellent property retention in service due to a stable additive package.	Helps maintain performance in low make-up systems

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 - C Series	150	220	320
ISO Viscosity Grade	150	220	320
Viscosity, ASTM D 445			
cSt @ 40° C	150	220	320
cSt @ 100° C	14.4	18.2	23.7
Viscosity Index, ASTM D 2270	93.3	90.5	93.6
FZG 4-Square Load Support, DIN 51354, fail load stage	13	13	13
Demulsibility, minutes to 40/37/3, 82° C	-	15	-
Rust Characteristics, Proc B, ASTM D 665	Pass	Pass	Pass
Foam Sequence Tendency, ASTM D 892, ml,			
I	0/0	0/0	10/0
II	10/0	10/0	10/0
III	0/0	0/0	10/0
Copper Strip Corrosion, 3 h @ 100° C, ASTM D 130, rating	1a	1a	1a
Pour Point, °C, ASTM D 97	-20	-18	-16
Flash Point, °C, ASTM D 92	270	274	290
Density at 15 °C, Kg/M3, ASTM D 4052	886.1	890.1	894.9

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 Specialties, Technical Services, Technical Help Desk: 1-800-268-3183



Health and Safety Precautions

The Mobil DTE PM - C 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.

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