

# Product Data Sheet

## Mobil DTE PM Series High Quality Circulation Oils for the Paper Industry

### Product Description

Mobil DTE PM Series are premium quality lubricants specifically designed for use in industrial paper machine circulating systems for gears and bearings.

They are formulated from stable, high quality base stocks and additives to provide superior protection against rust and corrosion, excellent resistance to oxidation and thermal degradation, and a high level of anti-wear performance. They have good demulsibility which permits water and other contaminants to separate readily from the oil in the system reservoir, and good air release properties to prevent noisy and erratic operation.

Mobil DTE PM Series possess excellent keep-clean performance for retention of superior oil and system cleanliness, giving extended oil drain periods, filter and equipment life.

### Benefits

Mobil DTE PM Series offer the following benefits :-

- Long lubricant charge life due to excellent resistance to oxidation and thermal degradation, giving extended drain periods and freedom from deposits
- Enhanced property retention in service due to stabilised additive system
- Reduced wear minimises maintenance and replacement costs
- Excellent protection against rust and corrosion, keeps systems clean in both the liquid and vapour phases
- Excellent filterability eliminates contaminants and extends filter life
- Superior water resistance allows oil to work well when contaminated with small amounts of water but separate large amounts of water readily
- Good air release properties avoid pump cavitation and erratic operation
- Fewer unscheduled stoppages through a high performance quality lubricant

### Application

Mobil DTE PM Series are primarily intended for the lubrication of plain bearings, roller bearings and parallel shaft gearing. Applications include splash, batch and ring oil arrangements and all other methods involving pumps, valves and auxiliary equipment.

Mobil DTE PM Series are specially suited for the circulating systems of paper machines. They perform well at the elevated temperatures normally found in the dryer sections. They are also suitable for systems which can be contaminated by water, acidic water and process chemicals.

Mobil DTE PM 220 can be used for "Sym Roll" systems that recommend an ISO 220 product.

## Health and Safety

Based on available toxicological information, it has been determined that these products pose no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

## Typical Characteristics

<b>Mobil DTE PM</b>	<b>Test Method</b>	<b>150</b>	<b>220</b>
ISO Viscosity Grade		150	220
Viscosity, cSt at 40°C	ASTM D445	150	208
Viscosity, cSt at 100°C	ASTM D445	14.4	17.8
Viscosity Index	ASTM D 2270	92	95
Pour Point, °C max.	ASTM D97	-6	-7
Flash Point, COC, °C min.	ASTM D92	227	227
Rust Protection,	ASTM D665		
Distilled Water		Pass	Pass
Synthetic Sea Water		Pass	Pass
Copper Corrosion, 3 hours at 100°C,	ASTM D130	1A	1A
FZG Gear Test, Fail Stage,	DIN 51354	12	12
Demulsibility at 82°C, minutes to 3 ml,	ASTM D1401	<30	10

Due to continual product research and development, the information contained herein is subject to change without notice.

**Mobil Oil Company Limited**  
**Acting as Agent for Mobil Lubricants UK Limited**  
**ExxonMobil House, Ermyn Way**  
**Leatherhead, Surrey, KT22 8UX**  
**Telephone: 01372 22 2000**

