



## Mobil DTE™ PM Excel

Mobil Industrial , Ukraine

Paper Machine Lubricant

### Product Description

Mobil DTE™ PM Excel is a multi-functional paper machine oil for use in wet end, dry end, press sections and calender circulation oil systems. The fluid has been formulated with select high-quality base oils and a proprietary advanced technology additive system carefully balanced to achieve high performance standards and provide maximum protection of gears and bearings operating under severe conditions.

### Features and Benefits

Mobil DTE PM Excel has the following potential benefits:

- Excellent anti-wear protection of bearings and gears of system components using various metallurgy help extend component life
- Ultra keep clean properties reduce system deposits and sludge help protect equipment and extend equipment life, which can reduce maintenance costs and improve total system performance
- Exceptional thermal / oxidation stability help reduce maintenance downtime and costs by contributing to system cleanliness and deposit reduction, which can enable long oil and filter life
- Meets wide range of equipment requirements which helps avoid risk of misapplication and enable potential inventory reduction
- High level rust and corrosion protection which can help improve production capacity

### Applications

- Lubrication of the wet end, press section, calender applications and dry end, including in Voith and Metso (Valmet) paper machines
- 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

### Specifications and Approvals

| <b>This product is recommended for use in applications requiring:</b>                               | <b>150</b> | <b>220</b> |
|---|------------|------------|
| Valmet Paper RAU4L00659_06: OIL RECOMMENDATIONS FOR PAPER AND BOARD MACHINE OIL LUBRICATION SYSTEMS | X          | X          |
| Valmet Paper RAUAH02724_02_EN_V: MINERAL OIL RECOMMENDATIONS FOR ZONE-CONTROLLED ROLLS              | X          | X          |
| Voith Paper VS 108 5.3.1 2023-04 (wet end)  | X          |            |
| Voith Paper VS 108 5.3.2 2023-04 (dry end)  |            | X          |
| Voith Paper VS 108 5.3.3 2023-04 (off-line coaters)   | X          |            |
| Voith Paper VS 108 5.3.4 2023-04 (hydraulic roll)   | X          |            |
| Voith Paper VS 108 5.3.5 2023-04 (shoe press)   | X          | X          |
| Voith Paper VS 108 5.3.6 2023-04 (winder)   |            | X          |

| <b>This product meets or exceeds the requirements of:</b> | <b>150</b> | <b>220</b> |
|---|------------|------------|
| DIN 51517-3:2018-09                                       | X          | X          |
| DIN 51524-2:2017-06                                       | X          |            |

## Properties and Specifications

| <b>Property</b>   | <b>150</b> | <b>220</b> |
|---|------------|------------|
| Grade   | ISO VG 150 | ISO VG 220 |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130       | 1A         | 1A         |
| Demulsibility, Time to 3 mL Emulsion, 82 C, min, ASTM D1401 | 10         | 10         |
| FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1        | +12        | +12        |
| Flash Point, Cleveland Open Cup, °C, ASTM D92               | 264        | 278        |
| Foam, Sequence I, Stability, ml, ASTM D892                  | 0          | 0          |
| Foam, Sequence I, Tendency, ml, ASTM D892                   | 0          | 0          |
| Foam, Sequence II, Stability, ml, ASTM D892                 | 0          | 0          |
| Foam, Sequence II, Tendency, ml, ASTM D892                  | 0          | 0          |
| Foam, Sequence III, Stability, ml, ASTM D892                |            | 0          |
| Foam, Sequence III, Tendency, ml, ASTM D892                 |            | 0          |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445  | 14.5       | 18.7       |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445   | 145        | 214        |
| Pour Point, °C, ASTM D97                                    | -18        | -15        |
| Rust Characteristics, Procedure A, ASTM D665                | PASS       |            |
| Rust Characteristics, Procedure B, ASTM D665                | PASS       | PASS       |
| Specific Gravity @ 15.5 C, ASTM D1298                       |            | 0.894      |
| Specific Gravity, 15.6 C/15.6 C, ASTM D1298                 | 0.888      |            |
| Viscosity Index, ASTM D2270                                 | 96         | 97         |

## 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.aspx>

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