



## Mobil DTE™ PM Excel Series

Mobil Industrial , Switzerland

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 mis-application 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

This product is recommended for use in applications requiring:	150	220
Valmet RAU4L00659_07	X	X
Valmet RAUAH02724_01	X	X
Voith Paper VS 108 5.3.1 2021-10 (wet end)	X	
Voith Paper VS 108 5.3.2 2021-10 (dry end)		X
Voith Paper VS 108 5.3.3 2021-10 (off-line coaters)	X	
Voith Paper VS 108 5.3.4 2021-10 (hydraulic roll)	X	
Voith Paper VS 108 5.3.5 2021-10 (shoe press)	X	X
Voith Paper VS 108 5.3.6 2021-10 (winder)		X

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

### Properties and Specifications

Property	150	220
Grade	ISO 150	ISO 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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06-2023

EXXONMOBIL LUBRICANTS & SPECIALTIES EUROPE, A DIVISION OF EXXONMOBIL PETROLEUM & CHEMICAL, BVBA (EMPC)

POLDERDIJKWEG  
B-2030 Antwerpen  
Belgium

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