Mobil DTE™ PM Excel Series

Mobil Industrial , Norway

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, mm2/s, ASTM D445	14.5	18.7
Kinematic Viscosity @ 40 C, mm2/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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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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