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Mobil DTE™ FM Series

Mobil Industrial, Turkey

Food Machinery Lubricants

Product Description

Mobil DTETM FM Series oils are high performance lubricants designed to satisfy a wide range of multi-use equipment requirements for the food processing and pad industry. These lubricants are qualified as NSF H1 type lubricants and also comply with Title 21 CFR 178.3570 by the Food and Drug Administration (USA) for use there is the potential for incidental food contact. Mobil DTE FM Series are manufactured at ISO 22000 certified facilities that also meet the requirements of ISO helping to ensure that the highest levels of product integrity are maintained.

The lubricants are tasteless, odourless, premium quality lubricants formulated with non-toxic NSF/FDA food grade additives and base oils. The additive system pr good wear protection, excellent oxidation stability and protection against rust. They provide good system cleanliness, long oil/filter life, and optimum equi protection. The Mobil DTE FM Series oils are excellent gear, bearing and circulating oils. They are also suitable for handling the critical requirements of hydraulic s components such as close clearance servo-valves and the high accuracy numerically controlled (NC) machine tools. These products meet the most rigorous perfor requirements of a wide range of system and component manufacturers using various multi-metallurgy designs allowing a single product with outstanding perfor characteristics.

The Mobil DTE FM Series oils have high ratings in the FZG Gear Test demonstrating their excellent protection against wear and scuffing. This allows their use in sy other than hydraulics that may contain gears and bearings. The naturally high viscosity index of the base oils ensures outstanding performance over a wide temper range.

Mobil DTE FM Series will not contribute to MOAH content in food when used in accordance with FDA 21CFR178.3570 limitations.

Features and Benefits

Features	Advantages and Potential Benefits
Non-Toxic Formulation	Allows use in food packaging and processing applications
Very Good Anti-wear Properties	Reduces wear Extends equipment life
Excellent Oxidation Stability	Provides long oil and equipment life Extends filter life
High Level Corrosion Protection	Prevents internal hydraulic system corrosion Reduces negative effects of moisture in systems Provides corrosion protection of multi-metallurgy component designs
Meets a Wide Range of equipment requirements	Multi-service applications - One product can replace several Minimises inventory requirements Reduced potential for product misapplication
Excellent Air Separation Characteristics	Reduces foaming and it's negative effects
Very Good Water Separation Properties	Protects systems where small quantities of moisture are present Readily separates larger quantities of water

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• Suitable for multi-service applications in the lubrication of machinery used in all food processing industries, fish processing and meat packing plants

- Excellent gear, bearing, circulating system and hydraulic oils
- Compressors and vacuum pumps handling air and inert gasses
- Air line lubricators
- Systems requiring a high degree of load-carrying capability and anti-wear protection
- Machines employing a wide range of components using various metallurgy

Specifications and Approvals

This product is registered to the requirements of:	MOBIL DTE FM 32	MOBIL DTE FM 46	MOBIL DTE FM 68
NSF H1	X	X	X

This product meets or exceeds the requirements of:	MOBIL DTE FM 32	MOBIL DTE FM 46	MOBIL DTE FM 68
FDA 21 CFR 178.3570	Х	Х	X

Properties and Specifications

Property	MOBIL DTE FM 32	MOBIL DTE FM 46	MOBIL DTE FM
Grade	ISO 32	ISO 46	ISO 68
Copper Strip Corrosion, 3 h, 121 C, Rating, ASTM D130	1A	1A	1A
FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1	11	12+	12+
Flash Point, Cleveland Open Cup, °C, ASTM D92	212	226	228
Four-Ball Wear Test, Scar Diameter, 20 kg, 1800 rpm, 1 h, 54 C, mm, ASTM D4172	0.25	0.25	0.25
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	5.5	6.8	8.7
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	31.9	45.5	68.5
Pour Point, °C, ASTM D97	-12	-9	-12
Rust Characteristics, Procedure A, ASTM D665	PASS	PASS	PASS
Specific Gravity, 15.6 C/15.6 C, ASTM D4052	0.862	0.868	0.873
Viscosity Index, ASTM D2270	106	105	101

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.as All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries unless indicated otherwise.

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You can always contact our Technical Help Desk engineers on Mobil lubricants and services related questions: https://www.mobiloil.com.tr/tr-tr/contact-us

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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 pro performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without no All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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