

ExxonMobil 680 Mobil DTE FM Series

Category : Fluid , Lubricant

Material Notes:

Mobil DTE FM Series oils are high performance lubricants designed to satisfy a wide range of multi-use equipment requirements for the food processing and packaging 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 lubricants with incidental food contact. The lubricants are tasteless, odourless, premium quality lubricants formulated with non-toxic NSF/FDA food grade additives and base oils. The additive system provides good wear protection, excellent oxidation stability and protection against rust. They provide good system cleanliness, long oil/filter life, and optimum equipment 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 system components such as close clearance servo-valves and the high accuracy numerically controlled (NC) machine tools. These products meet the most rigorous performance requirements of a wide range of system and component manufacturers using various multi-metallurgy designs allowing a single product with outstanding performance 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 systems other than hydraulics that may contain gears and bearings. The naturally high viscosity index of the base oils ensures outstanding performance over a wide temperature range. Suitable for multi-service applications in the lubrication of machinery used in all food processing industries, fish processing and met 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; Mobil DTE FM 220, 320 and 460 are recommended for freezer plants and for outdoor applications due to their low temperature properties and high temperature stability; Machines employing a wide range of components using various metallurgy

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http://www.lookpolymers.com/polymer_ExxonMobil-680-Mobil-DTE-FM-Series.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.853 g/cc	0.853 g/cc	15.6°C; ASTM D4.52
Viscosity Measurement	159	159	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	670 cSt	670 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	61.2 cSt	61.2 cSt	ASTM D445

Mechanical Properties	Metric	English	Comments
Four Ball Wear	0.300 mm	0.0118 in	20 kg, 54°C, 1800 rpm, 1 hr; ASTM D4172

Thermal Properties	Metric	English	Comments
Pour Point	-39.0 °C	-38.2 °F	ASTM D97
Flash Point	278 °C	532 °F	ASTM D92

Descriptive Properties	Value	Comments
Copper Strip Corrosion	1A	3 hrs @ 100°C
FZG Gear Test, DIN 51534, Fail Stage	12+	
Rust Prevention, Distilled Water	pass	ASTM D665A

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