

Mobil DTE FM 32

Product Description

Mobil DTE FM 32 is a high performance lubricant designed to satisfy a wide range of multi-use equipment requirements for the food processing and packaging industry. This lubricant is approved by Agriculture and Agri-Food Canada as a category n lubricant (incidental food contact) and is qualified as NSF H1 type lubricant and also complies 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.

Mobil DTE FM 32 can be used as a gear, bearing and circulating oil if it meets the viscosity requirements of the application. This product is 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. Mobil DTE FM 32 meets the 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 32 high rating in the FZG Gear Test demonstrates excellent protection against wear and scuffing. This allows 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.

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 Minimizes inventory requirements Reduced potential for product misapplication
Excellent Air Separation Characteristics	Reduces foaming and its negative effects
Very Good Water Separation Properties	Protects systems where small quantities of moisture are present Readily separates larger quantities of water

Due to continual product research and development, the information contained herein is subject to changes without notification. Additional important health and safety information on this product can be found in the Material Safety Data Sheet, which is available online at www.imperialoil.ca/mobil or by contacting Lubricants and Petroleum Specialties, Technical Services, Technical Help Desk: 1-800-268-3183



Applications

- 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

Mobil DTE FM 32 Meets or Exceeds the following industry specifications

Agriculture and Agri-Food Canada category n lubricant (incidental food contact)

FDA 21 CFR 178.3570

NSF H1

Typical Properties

	Mobil DTE FM 32
ISO Grade	32
Viscosity, ASTM D 445	
cSt @ 40° C	31.9
cSt @ 100° C	5.5
Viscosity Index, ASTM D 2270	106
Specific Gravity @ 15.6° C/15.6° C, ASTM D 4.52	0.862
Copper Strip Corrosion, ASTM D 130	1A
Rust Characteristics Proc. A, ASTM D 665	Pass
Pour Point, °C, ASTM D 97	-12
Flash Point, °C, ASTM D 92	212
FZG, DIN 51354, Fail Stage	11
4-Ball wear, ASTM D 4172, Scar Dia, 20Kg, 54° C, 1800 rpm, 1 hr, mm	0.25

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Health & Safety

MOBIL DTE FM 32 is manufactured from high quality petroleum base stocks, carefully blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact to skin, splashing into the eyes, ingestion or vapour inhalation. Please refer to our Imperial Oil Material Safety Data Sheet for further information.

Note: This product is not controlled under Canadian WHMIS legislation.

Precautions

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