

# Mobilgrease® FM 101 and FM 102

## Grease

### Product Description

Mobilgrease FM 101 and FM 102 are extra high performance multi-purpose products designed specifically for the lubrication of food machinery. These leading edge products are aluminium complex-thickened and use special mineral base oils required for products with potential incidental food contact. They are formulated to provide superior performance in the lubrication of bearings and industrial equipment and provide superior protection against wear, good corrosion resistance and will withstand routine water emersion. They also provide good low temperature pumpability and the two grades are suitable for regular duty to 175° C. Mobilgrease FM 101 and FM 102 are NLGI Grade 1 and 2 respectively.

Mobilgrease FM 101 and FM 102 are designed to replace conventional lithium and synthetic greases in moderate and high temperature applications in food plants and sanitary equipment. Based on their benefits of performance and multi-purpose application for food and sanitary operations, these greases are the products of choice for many users, worldwide.

### Features & Benefits

Mobilgrease FM 101 and FM 102 are members of the Mobilgrease brand of greases that enjoys a strong reputation for performance excellence even under arduous conditions. Mobilgrease FM 101 and FM 102 provide superior performance in a wide variety of food and sanitary applications and offer the following features and potential benefits:

Features	Advantages and Potential Benefits
Meet FDA and USDA requirements for incidental food contact lubricants	Specifically designed to provide safe and reliable performance in food and related industries
Extended lubricant life at high temperature	Extended re-greasing intervals and long product life
Excellent water tolerance	Withstands routine water immersion and maintains high level of grease performance
Good protection against corrosion	Extends equipment life, avoids un-planned downtime
Good low temperature pumpability	Easier low temperature start-up; remote location capability
Balanced performance for a wide variety of industrial equipment	Multipurpose use reduces inventory requirements



## Applications

Mobilgrease FM 101 and FM 102 are designed specifically for the lubrication of food and sanitary machinery under a wide range of operating conditions. Specific applications include:

- Journal and anti-friction bearings
- In-plant and mobile equipment handling food products
- Sanitary equipment

## Specifications & Approvals

Mobilgrease meets or exceeds the following industry specifications:	FM 101	FM 102
USDA 1998 H1 Guidelines	X	X
NSF-1 Registered	X	X
Reg # 127240	X	
Reg # 127241		X

## Typical Properties

	Mobilgrease FM 101	Mobilgrease FM 102
NLGI Grade	1	2
Thickener Type	Al-complex	Al-complex
Color, Visual	Pale yellow	Pale yellow
Penetration, Worked, 25° C, ASTM D 217	325	280
Dropping Point, °C, ASTM D 2265	216	216
Viscosity of Oil, ASTM D 445		
cSt @ 40° C	100	100
Four-Ball Wear Test, ASTM D 2266, scar, mm	< 0.5	< 0.5
Four-Ball Weld Load, ASTM D 2596, Kg	126 +	160 +
Corrosion Prevention, ASTM D 1743	Pass	Pass
Water Washout, ASTM D 1264, %	5	9

### ExxonMobil Lubricants & Specialties

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## Health & Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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