

Mobilgrease™ FM Series

Premium greases for the food and beverage industry



Energy lives here™

Key benefits



NSF H1 registered and Kosher/Parve/Halal approved greases for use in the food industries



Helps promote long equipment life through excellent water tolerance and rust protection



High degree of shear stability provides for long intervals between relubrication and helps optimize productivity



High degree of corrosion resistance even in harsh environments provides exceptional protection

Mobilgrease FM 222 resists to water spray off with typically

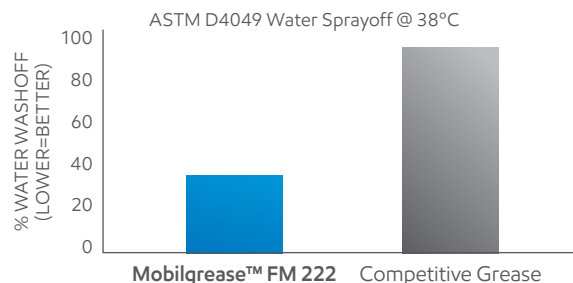
66%

grease remaining in the ASTM D4049 test

NSF H1 registered and formulated with high-quality basestocks and performance additives, Mobilgrease™ FM 101 and FM 222 greases have been designed specifically to meet the needs of the food processing industry that requires:

- Excellent water resistance, rust protection and a high degree of shear stability for long intervals between relubrication
- A long service life throughout a wide range of operating environments.
- Superb protection against wear and shock load conditions as the greases are formulated to handle a variety of loads

Mobilgrease FM 222 is designed as a multipurpose grease for a wide range of applications, including bearings, joints, pumps, and mixer lubrication. Mobilgrease FM 101 has been developed for excellent pumpability in centralized systems, even operating at low temperatures.



Water Resistance

In ASTM D4049 Water Sprayoff testing, Mobilgrease™ FM 222 grease shows resistance to water sprayoff, allowing increased protection in environments where washdowns are common.

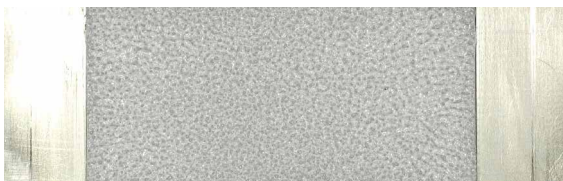
Mobilgrease™ FM Series

Corrosion Resistance



Mobilgrease™ FM Series grease demonstrates excellent corrosion resistance in ASTM D6138 EMCOR testing, yielding the best rating of 0,0. As shown in the image above, there is no visible corrosion from the Mobilgrease FM Series EMCOR test sample.

ASTM D4049 Water Sprayoff @ 38°C



MOBILGREASE FM 222 (33% LOSS)



COMPETITOR FM GREASE (88% LOSS)

Mobilgrease FM 222 resists water sprayoff with only a 33% loss of grease compared with an 88% loss of grease from a competitive H1 grease in the ASTM D4049 Water Sprayoff test.

Typical properties*

Mobilgrease™ FM Series	101	222
NLGI Grade	1	2
Thickener Type	Aluminum Complex	Aluminum Complex
Color, Visual	White	White
Penetration, Worked, 25° C, ASTM D217, mm/10	325	280
Dropping Point, ASTM D2265, °C	260	260
Viscosity Grade, ASTM D445, cSt @ 40° C	100	220
Penetration Consistency Change, 100,000 Stroke, Change from Worked Pen, ASTM D1831, mm/10	+20	+20
Corrosion Prevention, ASTM D1743, Rating	Pass	Pass
Copper Strip Corrosion, DIN 51811	1b	1b
4-Ball Wear Test, ASTM D2266, Scar Diameter, mm	0,5	0,5
4-Ball EP Test, ASTM D2596, Weld Point, Kg	315	315
EMCOR Rust Protection, ASTM D6138, rating	0,0	0,0
Waterwashout loss, ASTM D1264, wt% loss	9	5

Mobilgrease FM is registered to the requirement of:

NSF H1 Registration Number	141881	136449
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Mobilgrease FM meets or exceeds the requirements of:

DIN 51825 (2006:06)	KPF1K-20	KPF2K-20
FDA 21 CFR 178.3570	X	X

Industrial Lubricants



Advancing Productivity™

Safety

Long grease life as well as enhanced equipment life and reliability, can help reduce maintenance and the safety risks associated with employee-equipment interaction.

Environmental Care†

The greases' ability to resist water washout and maintain standout lubrication performance in wet environments can control waste grease generation and maintenance-related waste.

Productivity

Equipment protection helps manage your expenses and inventory levels — which can lead to a more efficient operation.

Health and Safety

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

† Visit mobilindustrial.com to learn how certain Mobil-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

* 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 ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

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