



Pure™ FM

Pure™ FM is a premium quality food-grade, synthetic-based grease specially developed for use as a lubricant in applications where there is the possibility of incidental food contact. It is recommended for use in food processing, bottling and sanitary equipment operating at low or high temperatures.

Pure™ FM is manufactured with synthetic polyalphaolefin (PAO) base oil thickened with silica gel. It is compounded with special food-grade additives to provide oxidation resistance, rust and corrosion protection, and wear protection. It has excellent resistance to water washout and provides excellent rust and corrosion protection in applications where the equipment is exposed to fruit acids, chemicals or saline solutions.

Pure™ FM meets the requirements of U.S. FDA Regulation 21 CFR 178.3570 and 1998 USDA H-1 guidelines for incidental food contact. It is registered by NSF International as an H1 lubricant.

Applications

- Machinery used in canneries, meat and poultry plants
- Food processing equipment
- Bottling plants
- Seamers
- Industrial applications requiring a transparent, nonstaining grease
- Applications where water pollution laws prohibit lubricants from leaving an oil sheen on the surface of the water, such as dredging and immersed cables⁽¹⁾

Features/Benefits

- Registered as H-1 by NSF International
- Synthetic, low-volatility base oil
- Outstanding oxidation stability
- Excellent resistance to water washout
- Protects against rust and corrosion
- Good wear protection
- Nonstaining
- Suitable for use over a wide range of operating temperatures

⁽¹⁾ **Note:** Surfaces coated with PURE™ FM will not leave an oil sheen when immersed in water, unlike conventional mineral-oil based greases.

**Premium Synthetic
Food Machinery
Grease; NSF H-1
Registered**

Contact Information

**U.S. Customer
Service:
1-800-822-6457**

**U.S. Technical
Services Hot line:
1-800-766-0050**

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+1-832-486-3363**

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Pure™ FM

Typical Properties

NLGI Grade	2
Thickener	Silica Gel
Color	Clear with Yellow Cast
Dropping Point, °C (°F)	340 (650)
Density, lbs/gal	7.30
Penetration, ASTM D217, Worked (60 strokes)	280
Texture	Smooth
Four-Ball EP, ASTM D2596, Weld Load, kgf	315
Four-Ball Wear, ASTM D2266, Scar Diameter, mm	0.70
Oxidation Stability, ASTM D942, 100 hrs,	
Pressure Drop, psi (kPa)	2.5 (17.2)
Rust Prevention, ASTM D1743	Pass
Water Washout Resistance, ASTM D1264, 175°F, wt loss, %	2.5
Base Oil Properties,	
Viscosity,	
cSt @ 40°C	62.5
cSt @ 100°C	9.8
SUS @ 100°F	320
SUS @ 210°F	60
Viscosity Index	135
Usable Temperature Range,	
°C	-40 to 204
°F	-40 to 400

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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