



# SHELL GREASE FM 2

## Multipurpose grease for the food industry

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### Product Description

**Shell Grease FM 2** is a mineral oil based NSF H1 registered food grade grease with excellent performance features. The use of an aluminum complex thickener system in combination with a “white oil” base fluid results in excellent anti-wear and load carrying properties. The thickener system in combination with carefully selected additives results in resistance to rust, corrosion and oxidation. In applications where water contamination is a concern, **Shell Grease FM 2** is highly resistant to water washout.

**Shell Grease FM 2** is formulated in accordance with US FDA Regulation 21 CFR 178.3570. **Shell Grease FM 2** is registered with NSF International as an H1 lubricant.

**Note:** This product is not intended for use as an additive or ingredient of food, feeds, drugs or cosmetics.

### Applications

Shell Grease FM 2 is designed for use where incidental contact of the lubricant and edible products is possible. Shell Grease FM 2 may be used in meat and poultry plants, beverage plants, canneries, and other food processing applications. Shell Grease FM 2 may be used to lubricate pumps, conveyors, mixers, gear units, and bearings.

### Benefits

- excellent anti-wear and extreme pressure properties
- good high temperature properties and oxidation stability
- good water resistance
- good rust and corrosion protection

### Approvals and Recommendations

- NSF H1 Registered
- Formulated in accordance with US FDA 21 CFR 178.3570

### Product Maintenance

Maintaining a clean work environment is critical when equipment greasing is performed. Grease fittings should be wiped clean prior to grease injection to prevent contaminants from entering the equipment. Bearing housings should be maintained one-third to one-half full of grease. Over-greasing should be avoided as excessive heat buildup can result. Periodic relubrication via grease gun or centralized system should be supplemented by complete cleaning and packing with fresh grease on an appropriate schedule.

### Conversion Guide

When upgrading from another food grade grease product to **Shell Grease FM 2**, product compatibility should be considered. Commonly, mixing dissimilar grease thickener systems such as aluminum complex and calcium sulfonate complex will result in a softer mixture than either original product. A temporary adjustment in relubrication frequency during product transition may be required.

When converting from a non-food grade grease to **Shell Grease FM 2** thorough purging is recommended. Equipment disassembly and cleaning prior to initial use of food grade grease may be needed.

### Typical Properties of Shell Grease FM 2

	Test Method	
Product Code		71149
NLGI Grade		2
Appearance		Smooth and tacky
Thickener		Aluminum Complex
Base Oil + Oil Soluble Additives		
Viscosity		
@ 40° C, cSt	D 445	580
@ 100° C, cSt	D 445	66
Penetration, mm	D 217	
Worked 60X		280
Mech.Stability, 10,000 strokes, % change		14
Dropping Point, °F	D 2265	>500
Rust Protection	D 1743	Pass
Copper Corrosion	D 4048	2a
Water Washout	D 1264	
wt % loss at 175°F		7.7
Water Spray Resistance, % Loss	D 4049	9.2
Four-Ball Wear, mm	D 2266	
1 hr/75x°C/1200 rpm/40 kgf		0.56
Four Ball EP	D 2596	
Load Wear Index, kgf		55
Weld Point, kgf		400
Timken, OK load, lbs	D 2509	40
Wheel Bearing Leakage, % loss	D 1263	4.5
Grease Mobility, g/minute at 0°F	U.S. Steel Method	9.0
Guide to Usable Temperature		
Min, °F		10
Continuous Service, Max °F		250
Short Exposure, Max, °F		280

#### Available Packages

Shell Grease FM 2 is available in the following packages:

- Drums (400 lb)
- Kegs (120 lb)
- Pails (35 lb)
- Tubes (14.1 oz tubes, available in cases containing 30 tubes)

#### Handling & Safety Information

For information on the safe handling and use of these products, refer to their Material Safety Data Sheets at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.