

JAX HALO-GUARD FG-PM

FG H1-REGISTERED HIGH-TEMP, HEAVY DUTY GREASE WITH E.P. AND ANTIWEAR



PRODUCT DESCRIPTION

JAX Halo-Guard FG-PM is a revolutionary food-grade grease manufactured with an advanced, proprietary calcium sulfonate complex thickener and a new high-viscosity, food-grade base fluid. This carefully selected formulation provides exceptional mechanical stability, very high load-carrying ability and remarkable rust and corrosion control. In addition, JAX Halo-Guard FG-PM has excellent water resistance and outstanding high-temperature performance characteristics, making this a true high-performance, food-grade grease for pellet mills and other heavily loaded applications. JAX Halo-Guard FG-PM meets the requirements of 21 CFR 178.3570 (lubricants with incidental food contact).

PRODUCT BENEFITS

- **Unsurpassed E.P. and Antiwear Performance**—JAX Halo-Guard FG-PM was specifically designed to show unsurpassed E.P. and antiwear characteristics. The heavy base fluid helps increase film strength and maintain a proper fluid film in heavily loaded, slow-moving applications. The extreme-pressure and antiwear performance is illustrated with Timken OK Values (ASTM D 2509) of 60 pounds or greater and 4-Ball EP (ASTM D 2596) LWI results of over 60 kgf with a weld point of 500 kgf. 4-Ball Wear (ASTM D 2266) performance is equally impressive with typical wear scars of less than 0.40 mm.
- **Protects Against Rust and Corrosion**—The calcium sulfonate thickener system of the JAX Halo-Guard FG-PM provides excellent natural rust and corrosion protection. JAX Halo-Guard FG-PM easily passes the standard Corrosion Preventive Properties Test (ASTM D 1743). A severe, Salt Fog Test (ASTM B 117) yields passing performance in excess of 300 hours, something few food grade greases of any other technology can achieve.
- **Outstanding Mechanical Stability**—JAX Halo-Guard FG-PM demonstrates excellent mechanical stability, showing little change in Cone Penetration (ASTM D 217) or consistency after 100,000 strokes. There is no evidence of shear breakdown in the Roll Stability Test (ASTM D 1831), even in an extended high-temperature, modified version to

increase the test's severity.

- **Thermal and Oxidative Stability**—The thermal and oxidative stability of JAX Halo-Guard FG-PM means that excellent performance in most high-temperature applications can be achieved without specialized grease. A dropping point (ASTM D 2265) of 572°F (300°C) means that Halo-Guard FG-PM is the highest temperature-capable, heavy-duty, food-grade grease on the market. JAX Halo-Guard FG-PM will outperform nearly all industrial nonfood-grade greases in high-temperature oxidation stability, a remarkable achievement for a food-grade, NSF H1 grease!
- **Excellent Water Resistance**—Water resistance is of particular importance in food-grade grease applications. Few industrial applications are subject to the severe process and sanitation water and chemical contamination inherent in modern food and beverage plants. JAX Halo-Guard FG-PM is one of the most water-resistant food-grade greases on the market with Water Washout (ASTM D 1264) results of 0.42% weight loss.
- **Contains Micronox®** – A first in food-grade lubricants, JAX Micronox® has proven especially effective in protecting JAX Halo-Guard FG-PM Greases over extended lubrication intervals.

APPLICATIONS

JAX Halo-Guard FG-PM satisfies the lubricant demands in nearly any heavily loaded food-plant machinery application including pellet mills. This makes JAX Halo-Guard FG-PM the ideal grease for difficult, highly loaded, greased gear and bearing applications. As a 'Heavy-Duty' food-grade grease, JAX Halo-Guard FG-PM can extend food-grade integrity to shop and plant equipment including fork trucks, conveyors, material handling equipment, presses, grain presses and packaging machines.

COMPATIBILITY

Extensive grease compatibility studies have shown JAX Halo-Guard FG-PM possesses very good compatibility with the vast majority of the most popular food-grade greases currently on the market. Please contact your JAX Sales Representative with questions regarding specific applications.



GREASES

JAX HALO-GUARD FG-PM



PERFORMANCE FEATURES AND BENEFITS

- Outstanding Rust & Corrosion Control
- Unsurpassed E.P. and Antiwear Properties
- Very Good Compatibility with Most Greases
- Excellent High-Temperature Oxidation Stability
- High-Temperature Performance

TYPICAL PROPERTIES	HALO-GUARD FG-PM (HLGPM)	METHOD
Soap Type	Calcium Sulfonate Complex	
NLGI Grade	2	
Penetration, Unworked	265-295	ASTM D 217
Penetration, Worked	265-295	ASTM D 217
Dropping Point, °F (°C), min	572 (300)	ASTM D 2265
Base Fluid:		
Viscosity Index	100	ASTM D 2270
Viscosity @ 40°C, cSt	200-250	ASTM D 445
Viscosity @ 100°C, cSt	22-24	ASTM D 445
Pour Point, °F (°C)	+21 (-6)	ASTM D 97
Flash Point, °F (°C)	500 (288)	ASTM D 92
Fire Point, °F (°C)	--	ASTM D 92
Grease Oxidation, psi loss, 1000 hrs	9.0	ASTM D 942
Water Washout @ 175°F (79.4°C) % loss	0.42	ASTM D 1264
Rust Test	Pass	ASTM D 1743
Oil Separation Test, %	0.2	ASTM D 1742
Roll Stability, % Change	3.1	ASTM D 1831
Four-Ball Wear, mm	0.38	ASTM D 2266
Timken OK Load, lbs.	60	ASTM D 2509
Four-Ball Weld, kgf	500	ASTM D 2596
Load Wear Index, kgf	62	ASTM D 2596
Wheel Bearing Life Test, hrs	120	ASTM D 3527
Color	White	
Texture	Smooth	
NSF Registration No. / Category Code	136969 / H1	

JAX products undergo continual improvement in formulation and manufacture. The values indicated in this PDS are typical production values at the time of this writing. JAX reserves the right to alter and update product data and typical values at any time without notice. It is the responsibility of the installer and/or purchaser to determine if these specifications are adequate and proper for the intended application. MSDS information may be found at www.jax.com or by contacting JAX INC.

CONTAINER SIZE

HALO-GUARD FG-PM

2000 Pound Tote - 276	HLGPM-276
400 Pound Drum - 400	HLGPM-400
120 Pound Keg - 120	HLGPM-120
35 Pound Pail - 035	HLGPM-035
50 Cartridge Case - 050	HLGPM-050
10 Cartridge Pack - 052	HLGPM-052



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GREASES