

Omega 68

DESCRIPTION:

Omega 68 Superior “FG Plus” Machinery Grease is formulated with calcium sulfonate complex thickener and a well-balanced package of FDA approved additives and white oil to satisfy the stringent maintenance requirements demanded by the MRO professionals in the food & beverage industry. Manufactured under strict quality control system, Omega 68 is NSF H1-listed and is certified by Halal & Kosher quality organizations. Omega 68 is a reliable and versatile food grade grease suitable for use in virtually all processing equipment operating over a wide range of temperatures in the food & beverage and pharmaceutical industries.



UNIQUE THICKENER SYSTEM:

Omega 68 is formulated with the advanced calcium sulfonate complex thickener system. Greases manufactured from this thickening system have, upon numerous on-site field tests and applications, the following advantages over other types of greases, such as lithium and aluminum complex thickened ones:

- Excellent load-carrying and anti-wear properties,
- Exceptional corrosion protection,
- Extremely resistant to water washout & spray-off, and
- Superb resistance to shear forces

The advanced calcium sulfonate complex thickener of Omega 68 is made up of multiple layers of thin; wafer-like crystalline calcite. These crystalline layers, by reacting specially to the rubbing or sliding forces, transform into boundary films to protect the metal surfaces from damaging metal to metal wear. The unique structure of calcium sulfonate complex thickener, which carries sulfonate ions, also serves as protective barrier to corrosion and water (even salt water).

This thickener system, combined with Omega's proprietary package of additives, enables Omega 68 to offer excellent mechanical, thermal and oxidation stabilities. Proven by tests, Omega 68 retains its texture and consistency in the presence of water and at high temperatures. It stays tenaciously in place to protect the lubricated components exposed frequently to heat and water.

MEETS VARIOUS FOOD-RELATED QUALITY STANDARDS:

Omega 68 is manufactured according to ISO 21469 which supports producers who adopt Hazard Analysis and Critical Control Points (HACCP) and Good Manufacturing Practice (GMP) programs. HACCP and GMP are both systems intended to ensure the safety of food, chemicals and pharmaceuticals. GMP is the "first step" to food safety, as a series of principles to be fulfilled to ensure that products meet stringent requirements of safety and quality. It can be one of the components of HACCP, which is a systematic approach to production that is designed to prevent hazards from occurring.

Omega 68 is also manufactured in accordance with the strict Halal and Kosher quality standards. A designated production line/area is used to manufacture Omega 68. This special grease production line/area is completely segregated to avoid cross-contamination caused by any prohibited materials according to the requirements of Halal & Kosher quality standards.

WIDE RANGE OF SERVICE TEMPERATURES:

With the manufacturing technology developed over the past decade, the low temperature performance of calcium sulfonate complex greases has been improved a lot, without compromising the high-temperature properties. By applying the most state-of-the-art thickening technology and subsequently, by optimizing the content of thickener, Omega 68 exhibits excellent pumpability and fluidity at freezing temperatures. Omega 68 performs well at extreme temperature conditions: down to -40°C and up to 200°C. Combined this broad range of service temperatures with the other outstanding features specified above, Omega 68 is surely a versatile lubrication solution to the food & beverage processing machineries.

APPLICATIONS:

Omega 68 is quality designed to provide prolonged protection and lubrication to bearings and/or grease-lubricated parts of processing machineries frequently exposed to water, heat, and high & shock loads. NSF H1-listed and Halal & Kosher certified, Omega 68 can be applied in virtually all food and food-related industries: Bakeries, Beverage Bottling and Canning, Breweries and Wineries, Dairy Products, Fish and Seafood Processing, Fruits and Vegetables, Food and Beverage Containers, Meat and Poultry Processing, Pet Foods, Pharmaceutical, Prepared Foods, Snack Foods, etc.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Appearance	Visual	Smooth, Tan
Density @ 20°C, g/cm ³	D-1298	0.96
Base Oil Viscosity, cSt @ 40°C	D-445	100
Worked Penetration,	D-217	265 - 295
Dropping Point, °C	D-2265	≥ 300
Four Ball Wear Test, mm	D-2266	≤ 0.5
Four Ball Weld Point, Kg	D-2596	500
Corrosion-Preventive Properties	D-1743	Pass
Copper Strip Corrosion	D-4048	1a
Recommended Application Temperatures, °C	--	-40 to 204 (Minus Forty to Two Hundred and Four)

The characteristics given above are typical of current production only and slight batch to batch variations should be expected.