



TECHNICAL DATA

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1031 ULTRA FOOD GRADE GREASE H1

Ultra Food Grade Grease H1 is an extreme pressure, anti-wear, high temperature, calcium sulfonate grease that is specially formulated for use in the lubrication of food, feed and pharmaceutical processing and packaging equipment, especially those pieces of equipment that are subjected to high loads, such as roller bearings in pellet mills.

Ultra Food Grade Grease H1 meets the requirements for a USDA H1 quality lubricant and the requirements of the United States Code of Federal Regulations 21CFR 178.3570, 178.3620(b), and 573.680 of the United States Food and Drug Administration's Regulations and is registered and meets NSF International's guidelines for use as a lubricant with incidental contact (H1).

NSF H1 Registration Number: 158148

Ultra Food Grade Grease H1 can be used in the lubrication of ball, roller, journal and sliding bearing applications and chain applications, where there is a chance of incidental contact with food, foodstuffs, drinking water, potable water, or ground water may occur. Typically, these applications can be found in the following industries:

Feed and Pellet Milling Operations	Egg Processing Plants
Meat and Poultry Processing Plants	Breweries and Wineries
Fish and Seafood Processing Plants	Vegetable and Fruit Processors
Soft Drink and Bottling Plants	Bakeries
Cheese and Cheese Product Producers	Pasta Manufacturers
Snack Food Manufacturers	Oil Mills and Seed Cake Processors
Pet Food and Animal Feed Producers	Cosmetic Manufacturers
Pharmaceutical and Drug Manufacturers	Paper and Paperboard Manufacturers
Food and Beverage Container Manufacturers	Drinking and Potable Water Treatment
Water Well Drillers	

Ultra Food Grade Grease H1 is compounded from a unique blend of the highest quality, highly refined and purified non-toxic white oils. Ultra Food Grade Grease H1 is a calcium sulfonate based grease formulated with extreme pressure, anti-oxidants, and anti-wear additives which provide the following outstanding performance features:

- Excellent resistance to water washout and water spray-off
- Excellent shear and mechanical stability.
- Superior anti-wear and extreme pressure load carrying properties.
- Superior rust and oxidation inhibiting characteristics.
- A high dropping point.
- Excellent resistance to wash out, pound out, splatter and squeeze out.
- Excellent high temperature properties.
- Environmentally friendly-no antimony, barium, chlorine, phosphorus, zinc or sulfur.

Ultra Food Grade Grease H1 has an operating temperature range of -4°F to 350°F.

TYPICAL PROPERTIES

NLGI Grade	#2
Type Thickener	Calcium Sulfonate
Color	Off-White
Texture	Smooth
Worked Penetration 60 strokes (ASTM D217)	265-295
Roll Stability (ASTM D1831)	
% Change in consistency	<3.0%
Dropping Point °F/°C (ASTM D566)	600.8°/316°
Four Ball EP (ASTM D2596)	
Weld Point, kg	400
Four Ball Wear, mm (ASTM D2266)	0.50
Water Washout Characteristics (ASTM D1264)	
% Loss @ 175°F	<2.0%
Rust Prevention Test (ASTM D1743)	
Rating	Pass
Copper Strip Corrosion Test (ASTM D4048)	1b
Oxidation Stability (ASTM D942)	
psi loss at 100 hours	1
Pressure Oil Separation (ASTM D1742)	
% weight loss	0.5
Base Oil Properties	
Viscosity @ 40°C, cSt (ASTM D445)	105
Viscosity @ 100°C, cSt (ASTM D445)	11.7
Viscosity Index	99