



TECHNICAL DATA

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#195 SUPERTAC FOOD GRADE GREASE H-1

Supertac Food Grade Grease H-1 is an extreme pressure, antiwear, high temperature 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 and high moisture conditions.

Supertac Food Grade Grease H-1 meets the requirements for a USDA H-1 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 with and meets NSF International's guidelines for use as a lubricant with incidental contact (H1) in and around food processing areas.

Supertac Food Grade Grease H-1 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:

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

Supertac Food Grade Grease H-1 is compounded from a unique blend of the highest quality, highly refined and purified non-toxic pure paraffin base technical white and USP grade white oils and polyalphaolefin (PAO) synthetic base fluids available. Blended into the paraffin base technical white USP grade white oils and PAO synthetic base fluids is an aluminum complex base thickener, adhesive/cohesive additives, a food grade antimicrobial agents and other selected performance additives.

This formulation provides with the following outstanding performance features:

1. Excellent pumpability characteristics for use in centralized lube systems.
2. Excellent resistance to water washout and water spray-off
3. Excellent shear and mechanical stability.
4. Superior antiwear and extreme pressure load carrying properties.
5. Excellent rust and oxidation inhibiting characteristics.
6. Excellent resistance to oxidation.
7. A high dropping point.
8. Excellent resistance to acidic compounds.
9. Protection against rancidity and build-up due to bacterial and fungal growth
10. Excellent resistance to wash out, pound out, splatter and squeeze out.
11. Excellent ability to retain its consistency and resist separation of its base oils.

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Supertac Food Grade Grease H-1 has an operating temperature range of 10° to 350°F.

This product is acceptable as a lubricant with incidental food contact (H1) for use in and around food processing areas. Such compounds may be used on food processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is a potential exposure of the lubricated part to food. The amount used should be the minimum required to accomplish the desired technical effect on the equipment. If used as an anti-rust film, the compound must be removed from the equipment surface by washing or wiping, as required to leave the surface effectively free of any substance which could be transferred to food being processed.

TYPICAL PROPERTIES

NLGI Grade	#1	#2
Type Thickener	Aluminum Complex	Aluminum Complex
Worked Penetration 60 strokes (ASTM D-217)	310-340	265-295
Roll Stability (ASTM D-1831)		
% Change in consistency	9.5%	9.3%
Dropping Point °F/°C (ASTM D-566)	510°/265.56°	510°/265.56°
Four Ball Wear (ASTM D-2266) (40 kg, 1200 rpm, 1 hr @ 167°F)		
Scar diameter, mm	0.55	0.55
Four Ball EP (ASTM D-2596)		
Weld Point, kg	400	400
Load Wear Index, kg	52	55
Timken EP (ASTM D-2509)		
Ok Load, lbs.	45	45
Falex Continuous Load (ASTM D-3233)		
Failure Load, lbs.	1300	1360
Leakage Tendencies (ASTM D-1263)		
Total Leakage, grams	0.13	0.13
Water Spray Off Test (ASTM D-4049)		
% Loss	9.2%	9.2%
Water Washout Characteristics (ASTM D-1264)		
% Loss @ 175°F	7.7%	7.7%
Rust Prevention Test (ASTM D-1743)		
Rating	1,1,1	1,1,1
Copper Strip Corrosion Test (ASTM D-4048)	1a	1a
Oxidation Stability (ASTM D-942)		
Psi Loss @ 100 hours	1	1
Evaporation Los @ 250°F, 22 hrs. (ASTM D-2595)		
% Loss	2.3	2

Base Oil Properties

Viscosity @ 40°C, cSt (ASTM D-445)	96-150	95-150
Viscosity @ 100°C, cSt (ASTM D-445)	10.00-13.00	10.00-13.00
Viscosity Index (ASTM D-2270)	108	108

Packaging: #195 Supertac Food Grade Grease H-1 is available in 400 lb. drums, 120 lb. Kegs, 40 lb. Pails and 50 tubes per case.