



Lubricants for Food, Beverage & Pharmaceutical Industries

ULTRALINE's H1 Products Provide Solutions for Specific Needs



ULTRALINE supplies a wide variety of high-performance oils and greases specially formulated to meet the needs of food, beverage and pharmaceutical operations.

These food-grade lubricants conform to requirements under H-1 designations of the U.S. Department of Agriculture (USDA) for incidental food contact. The FDA has determined the safe components of food grade lubricants. NSF International maintains the Class H1 list of food grade lubricants that can be used in equipment found in food and beverage manufacturing plants.



Use H-1 wherever there is a chance of incidental contact with food, foodstuffs, drinking water, potable water, or ground water may occur.

ULTRALINE knows about the severe operating conditions and expensive machinery at these companies. That's why our H1 products are particularly suitable for plant operations in these industries, due to their resistance to washout and emulsification with water, which causes viscosity degradation that contributes to mechanical wear and premature loss of machine usefulness. Our proprietary high-technology additives used in these H1 products provide improved resistance to oxidation, which extends oil life by preventing pre-mature breakdown.

Lubricant contamination is a continual threat for the food and beverage industry. Although strong maintenance and operational practices may lower the chance that oils and greases can contaminate products, they cannot always prevent leaks and spills. So any plant still using non- food grade lubes is at risk for an expensive product recall that could damage their brand and company reputation.

NSF H1 Lubricants

Cleared for Incidental Food Contact

Lubricants that are NSF H1 certified have been cleared for use in USDA-inspected food processing plants and can be used where incidental food contact may occur. Uses for an H1 lubricant include protective antirust film, release agent on gaskets or seals of tank closures, and lubricant for machine parts and equipment. The amount of lubricant used should be the smallest needed to accomplish the desired effect.



Machinery Grade Liquid Lubricants

ULTRALINE FLC SYNTHETIC HIGH TEMPERATURE CHAIN OILS

Synthetic Food Grade Chain Oil ISO VG 100: FLC 100

Synthetic Food Grade Chain Oil ISO VG 150: FLC 150

Synthetic Food Grade Chain Oil ISO VG 220: FLC 220

ULTRALINE FLC Synthetic Chain Oils are specially formulated to provide outstanding lubrication in food processing applications running under heavier loads or subject to high or low temperature extremes. Particularly suitable for the lubrication of drive chains, conveyor chains, cables and rollers. **ULTRALINE FLC Synthetic Chain Oils** are fortified with specially selected additives to provide outstanding resistance to oxidation and good drive lubrication. *These oils can be used as chain oils up to 200°C and 240°C for short periods of time depending on the grade used.*

Food Industry Approvals

- NSF H1 registered
- complies with FDA 21 CFR 178.3570 "Lubricants with incidental food contact"
- Halal certified

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ULTRALINE FGO SEMI-SYNTHETIC HIGH TEMPERATURE GEAR OILS

Semi-Synthetic Food Grade Gear Oil ISO VG 150: FGO 150

Semi-Synthetic Food Grade Gear Oil ISO VG 220: FGO 220

Semi-Synthetic Food Grade Gear Oil ISO VG 320: FGO 320

Semi-Synthetic Food Grade Gear Oil ISO VG 460: FGO 460

ULTRALINE FGO Semi-Synthetic Gear Oils are extreme pressure lubricants designed for use in the lubrication of all types of enclosed gear, chain guide, chain and conveyor operating in the most demanding food manufacturing environments. Formulated with a high performance food grade additive package, these lubricants deliver outstanding protection against micropitting and wear as well as good corrosion protection and thermal stability. **ULTRALINE FGO semi-synthetic gear oils contain special additives that extend relubrication intervals.** *These oils can be used as chain oils up to 140°C and 160°C for short periods of time.*

Food Industry Approvals

- NSF H1 registered
- complies with FDA 21 CFR 178.3570 "Lubricants with incidental food contact"
- Halal certified

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ULTRALINE SYNTHETIC HYDRAULIC & LUBRICATING OILS H-1

ULTRALINE Synthetic Hydraulic Oils H-1 is a line of food grade lubricants providing excellent protection and long service life to industrial equipment found in the food processing industry or wherever this level of hygienic protection is needed.

These products are blended from the highest quality, highly refined, severely hydro-finished and purified non-toxic technical white polyalphaolefin (PAO) synthetic base fluids available. Hydraulic Oil H-1 are food grade, non-toxic, developed for hydraulic systems used in food, drink and pharmaceutical processing and packaging equipment. They may also be used to lubricate anti-friction bearings, in general circulating systems, and in inline oilers in pneumatic systems commonly found in food packaging applications.

Available as: HYSYN FG-22 HYSYN FG-32, HYSYN FG46, HYSYN FG-68, HYSYN FG-100

Food Industry Approvals

- NSF H1 registered
- complies with FDA 21 CFR 178.3570 "Lubricants with incidental food contact"

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ULTRALINE AW HYDRAULIC OILS H-1

ULTRALINE Food Grade TL-AW Hydraulic Oils series are formulated specially for hydraulic systems operating in the food service and packaging industry. These lubricants are listed by NSF® for H-1 application (lubricants with possible incidental food contact) and comply fully with the requirements of FDA 21 CFR 178.3570 . **TL-AW Hydraulic** Series have been formulated to meet the performance required for most hydraulic pump makers such as Denison and Vickers.

Available as: ISO VG 68, 100, 150, 220, 320,460 & 680

Food Industry Approvals

- NSF H1 registered
- complies with FDA 21 CFR 178.3570 "Lubricants with incidental food contact"

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ULTRALINE FOOD GRADE MULTIPURPOSE OIL TL-370

ULTRALINE TL-370 Multipurpose Oil are made with USP white mineral oil, NSF listed H1. Recommended for the lubrication of all types of Hinges, precision mechanics, Linear guide systems, chains, slide-ways, plain bearings, Levers and Measuring devices. **ULTRALINE TL-370** are suitable for use on machinery used for producing, manufacturing, packing, preparing, and packaging food where there is a possibility of incidental food contact. These products should be used as recommended by a responsible company representative. Prolonged contact with the skin may cause mild irritation. The minimal amount possible should be used to achieve the desired technical effect on the equipment. See the Material Safety Data Sheet for additional information.

Food Industry Approvals

- NSF H1 registered
- Complies with FDA 21 CFR 178.3570 “Lubricants with incidental food contact”, CFR 21 -Section 176.170 - Components of paper and paperboard; CFR 21, Section 172.878 - White Mineral Oil and CFR 21, Section 178.3620 (a) - White Mineral Oil in contact with aqueous and fatty foods.

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Food Machinery Grade Grease

ULTRALINE SYNTHETIC FOOD GRADE HIGH TEMPERATURE GREASE FGP-227

Synthetic Food Grade High Temp Grease NIGL No.2: FGP-227

ULTRALINE FGP-227 Synthetic Grease is specially formulated to provide outstanding lubrication in food processing applications running under heavier loads or subject to high and low temperature extremes. It provides exceptional performance over a wide operating temperature range of -40°C to 160°C (up to **200°C** in intermittent-use situations), making it suitable for both hot and cold applications. It is recommended as a multipurpose lubricant across all food processing applications including mixing, cooking, stirring, baking, frying, packaging, canning and bottling.

Food Industry Approvals

- NSF H1 registered
- complies with FDA 21 CFR 178.3570 “Lubricants with incidental food contact”
- Halal certified

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ULTRALINE SEMI-SYNTHETIC FOOD GRADE GREASE FLG-226

Food Grade Aluminium Complex Grease NLGI 2: FLG-226

ULTRALINE FLG-226 Semi-Synthetic greases, are premium white Aluminium Complex greases specially developed for the lubrication of all types of machinery used in the food processing industry Food Machinery Grade Greases. These greases provide good load-carrying capacity, resistance to water washout, and are typically used in bearing and gear applications, with operating temperature capabilities from -20°C to 150°C. They can be used in a wide range of food processing applications including sleeve and anti-friction bearings, slides, guides and couplings found on food processing machinery.

Food Industry Approvals

- NSF H1 registered
- complies with FDA 21 CFR 178.3570 “Lubricants with incidental food contact”
- Free of genetically modified substances (GMS)
- Halal certified
- Maintains food allergy safety: - free of gluten - contains no peanuts, tree nuts or th derivatives



Strong Maintenance and Operational Practices

Using H1 food-grade lubricants is no replacement to sound design and maintenance. H1 lubricants are still only approved for minimal, incidental contact. If a plant uses food-grade lubricants, the FDA limits lubrication contamination to 10 ppm. (parts per million) – that's 0.001 percent.

Also, the lubricant certification process does not include lubricant plant audits and sample testing to ensure formulation; it is strictly comparing the formulation to the approved list.

ULTRALINE's **NSF H1** Registered, high-performance Food Machinery Grade Lubricants is designed for lubrication in food, beverage and pharmaceutical operations. Manufactured in compliance with strict ISO 9001 Registered quality assurance standards, these lubricants are formulated from the highest quality base stocks combined with state-of-the-art anti-wear additives. All ULTRALINE H-1 Lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental food contact. They meet USDA H-1 safety standards and are authorized for use in federally inspected meat and poultry plants. Clean, safe and non-toxic, their use can eliminate lubrication as a critical control point in HACCP programs. We appreciate your consideration and realize that we must constantly work to earn and maintain your trust and your business.



ULTRALINE LUBRICANTS SPECIALIST

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