



# TECHNICAL DATA

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## #276 SYNTHETIC FOOD GRADE GEAR LUBE H-1

Synthetic Food Grade Gear Lube H-1 is a synthetic blend, anti-wear, extreme pressure food grade oil 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.

Synthetic Food Grade Gear Lube 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.

Synthetic Food Grade Gear Lube H-1 can be used in the lubrication of all types of enclosed gear, chain guide, chain and conveyor 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  
Fish and Seafood Processing Plants  
Soft Drink and Bottling Plants  
Cheese and Cheese Product Producers  
Snack Food Manufacturers  
Pet Food and Animal Feed Producers  
Pharmaceutical and Drug Manufacturers  
Food and Beverage Container Manufacturers  
Water Well Drillers

Egg Processing Plants  
Breweries and Wineries  
Vegetable and Fruit Processors  
Bakeries  
Pasta Manufacturers  
Oil Mills and Seed Cake Processors  
Cosmetic Manufacturers  
Paper and Paperboard Manufactures  
Drinking and Potable Water Treatment  
Plants

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Synthetic Food Grade Gear Lube H-1 is blended from a combination of highest quality, highly refined, severely hydro-finished and purified non-toxic technical white polyalphaolefin (PAO) synthetic base fluids and technical white and U.S.P. grade paraffinic white oils available. These technical white PAO synthetic base fluids and technical white and U.S.P. grade paraffinic white oils provide Synthetic Food Grade Gear Lube H-1 with the following advantages:

1. Excellent lubricity and film strength
2. Superior oxidative stability
3. Excellent resistance to thermal degradation
4. A high viscosity index
5. Excellent hydrolytic stability
6. Excellent resistance to acidic compounds
7. Very good low temperature properties
8. A reduction in operating temperatures
9. Compatibility with all types of seals and coatings
10. Extended drain intervals

Blended into the technical white PAO synthetic base fluids and technical white and U.S.P. grade paraffinic white oils is a highly specialized non-toxic food grade approved additive package which provides the Synthetic Food Grade Gear Lube H-1 with the following outstanding performance features:

1. Exceptional anti-wear and load carrying capabilities
2. Excellent rust and corrosion inhibiting properties
3. Enhanced oxidation stability
4. Excellent anti-foam and air release properties
5. Enhanced oxidation stability.

Further blended into Synthetic Food Grade Gear Lube H-1 is a unique blend of USDA and FDA acceptable preservatives. These food grade preservatives provide the product with an effective way to control, inhibit and retard the growth of bacteria, yeast and molds that may come into contact with Synthetic Food Grade Gear Lube H-1 during use. These preservatives are not an antiseptic or sterilizing agent but Synthetic Food Grade Gear Lube H-1 does effectively prevent bacterial growth and control microbiological proliferation if the lubricant becomes contaminated during use.

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