

All-Syn FG Gear
Synthetic Gear Oil
No. 670



NSF H-1 Certified
ISO: 150, 220, 320,460

DESCRIPTION:

All-Syn FG Gear Oil is a premium quality synthetic food grade lubricant. It has been specifically formulated for use in severe duty low and high temperature applications where **NSF Registered, USDA H-1**, lubricants are specified because of the chance of incidental contamination of food or beverage. It is also intended for use in equipment where the oil may end up in sewers, waterways or other ecologically sensitive areas.

All-Syn FG Gear Oil is scientifically compounded with the highest quality USDA approved synthetic fluids and the most technically advanced, USDA/ F.D.A. authorized non-toxic performance additives. This advanced technology reduces downtime and lubrication problems caused by exposure to extreme hot or cold, contaminants, and moisture.

All-Syn FG Gear Oil has specialized moisture inhibitors, resulting in superior water/oil separation and minimal deposit formation. It offers the maximum protection against friction, wear, moisture, corrosion, acids, and is clean and non-staining.

All-Syn FG Gear Oil has an extremely high film strength and load carrying capability, and provides a cleaner, more efficient operation with greatly reduced wear and down time.

PERFORMANCE CHARACTERISTICS:

- **NSF registered**
Registered with NSF as an H-1 lubricant and meets the requirements of Title 21 of the Code of Federal Regulations.
- **Provides premium anti-wear protection**
Special anti-wear additives provide the highest level of protection against wear and scuffing in all types of gear systems.
- **Anti-oxidation protection**
Oxidation inhibitors and premium quality synthetic fluids combine to form a product with outstanding resistance to oxidation and provide the maximum protection against varnish formation at high temperatures.
- **Superior rust protection**
Inhibitors protect both steel and yellow metal surfaces against rust and corrosion.
- **Demulsibility**
Designed to separate rapidly from water
- **High viscosity index to ensure viscosity stability**
- **Synthetic base fluids for extended operation**

TYPICAL APPLICATIONS:

Recommended for use as a premium **NSF registered, USDA H-1**, anti-wear gear lubricant in:

Beverage Bottling	Bakeries	Harvesting
Produce Processing	Canneries	Poultry Processing
Meat Processing	Packaging	Flash Freezers
Creameries	Cold Storage	Sub-Zero Environments

And any other application requiring a food grade (H1) gear oil designed to operate in extreme hot and cold conditions.

SUMMARY:

Food processing and other industries whose equipment require the use of NSF H-1 registered fluids that meet USDA H-1 guidelines have a major problem in protecting against wear, oxidation and corrosion. Hydraulic systems are constantly subjected to adverse conditions such as hot and cold operating environments, moisture and long operating intervals. Oil deterioration results in excessive wear, frequent oil changes, costly downtime and shorter component life. **Commonly used food grade lubricants may meet USDA H-1 purity requirements but do not provide the best protection to critical components.**

All-Syn FG Gear Oil formulated with newly developed NSF registered, USDA H-1 authorized, nontoxic performance additives and premium synthetic base fluids will greatly reduce these problems and provide maximum system efficiency.

TYPICAL SPECIFICATIONS:

ISO Grade	150	220	320	460	680
Viscosity @ 40° C, cSt:	150	206	320	429	655
Viscosity @ 100° C, cSt:	19.1	24.3	33	40	50
Viscosity Index:	145	147	144	142	131
Flash Point, COC, °F	515	520	520	500	495
Pour Point, °F:	-49	-44	-44	-38	-20
Corrosion test, Steel, (ASTM D665) Procedure B:	Pass		Pass	Pass	Pass
Specific Gravity	.845	.848	.851	.856	.862
NSF Registered	H-1	H-1	H-1	H-1	H-1

Typical test data are average values only