

# Gear lubrication solutions

Help to prevent equipment failures



# Dependable gear lubricant solutions

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Whatever industrial machinery you are operating or maintaining, you want it to run reliably. Your goal is to prevent expensive unscheduled down time and maximize the life of your equipment. Today's turbo-machinery's high-speed, lightly-loaded gearing and slow-turning, highly-loaded gear reducers make lubricant selection a critical decision for increased reliability and longevity of gear drives. You can improve equipment reliability by keeping gear drives and bearings lubricated with clean, uncontaminated oil that can withstand harsh operating conditions, high EP loads, high temperatures, and severe sliding friction.

Summit Syngear® synthetic lubricants are formulated with the latest in lubrication technology to help prevent equipment failures. They come in a variety of ISO viscosity grades and formulations. Syngear® synthetic lubricants can reduce wear and frictional losses for optimum energy savings, while providing superior heat transfer away from meshing surfaces. They offer excellent oxidation and thermal stability at high temperatures, thus preventing deposit formation, foaming and viscosity breakdown when compared to conventional mineral-based gear lubricants.

If higher productivity and enhanced reliability are essential to your company's survival, then Summit Syngear® synthetic lubricants are a better return on your lubricant dollar investment.

In today's world of efficiency improvements, a lot of emphasis is placed on reducing energy requirements for equipment used in plant operations. Summit gear lubricants have proven to reduce friction, thereby reducing the input power to operate the equipment or increasing the available power output.

The reduction of fluid friction results in lower lubricant operating temperatures, prolonging the life of both the lubricant and the equipment. Summit has developed synthetic gear oils that will not only reduce frictional drag, but will also protect gears against failures associated with heavy loading.

Better wear protection, thermal and oxidation stability and reduced sludge and deposit formation ensure enhanced performance when compared with petroleum-based lubricants.



# Higher quality, higher performance

Summit gear lubricants are designed with the latest in lubrication technology for gear and bearing applications. The increasing power and torque demands, coupled with the need for reduced size and weight of today's current gear transmission systems, requires new thinking in gear design.

New materials, new gear designs, improved surface treatments, modern production techniques and the use of specialty high performance lubricants are all becoming commonplace in the gear market

Using Summit synthetic gear lubricants provides significant operational cost savings in lubricant volume, gear components and maintenance over the life of an industrial gear drive.

Using Summit synthetic gear lubricants can lead to significant operational cost savings.



## What sets Summit Lubrication apart?

We're looking to do much more than just sell lubricants. We pride ourselves on being expert problem solvers. At Summit, we know that our success hinges directly on your success, and that knowledge drives the way we do business. In everything we do – from product development, to hiring, to plant visits, phone calls, technical support, oil analysis, training seminars and everything in between – we are looking to answer the question: "Does this add to our customers success?" We want to be a full-service lubrication resource for your business.



# New demands require new solutions

The increasing power and torque demands, coupled with the need for reduced size and weight of today's current gear transmission systems, requires new thinking in gear design. Summit's full line of gear lubricants have applications built to protect against heavy-

loading or shock-loading, heavy duty manual transmissions and other industrial heavy duty gear drives including hypoid and worm gear operation under high-speed/low-torque or low-speed/high-torque and much more. Here are a few of the solutions we offer:

## High-Load

### Syngear SH-1000 Series

Base oil: Synthetic PAO | Industrial Grade

#### Benefits:

- Meets API GL-4 for scuffing protection against high peak loads, vibrations, and oscillations
- Intended for lubrication of heavily loaded spur, bevel, and planetary gears
- Good compatibility towards NBR and FKM sealing materials
- Excellent oxidation resistance extends relubrication intervals
- Good high temperature stability (284° F upper service temperature)

## Medium-Load

### Syngear SH-7000 Series

Base oil: Synthetic PAO | Industrial Grade

#### Benefits:

- Industrial Grade
- Excellent oxidation resistance extends relubrication intervals
- Good compatibility towards NBR and FKM sealing materials
- Excellent anti-foaming performance
- Great high temperature stability (284° F upper service temperature)
- Good compatibility where corrosion of nonferrous metals is a concern

## Food Grade

### Syngear PS FG Series

Base oil: Mineral White Oil

#### Benefits:

- Registered NSF H1 lubricant for incidental food contact, Kosher & Halal certified, manufactured under ISO 21469 standards
- Intended for lubrication of production equipment in beverage canning, bottling, meat and poultry processing, dairy operations, fruit and vegetable processing, bakeries, and pharmaceutical plants
- Optimized anti-oxidant additives to extend oil life
- Good scuffing resistance due to anti-wear and EP additives

### Syngear FG Series

Base oil: Synthetic PAO

#### Benefits:

- Registered NSF H1 lubricant for incidental food contact, Kosher & Halal certified, manufactured under ISO 21469 standards
- Intended for lubrication of gears in the food service and packaging industries
- Improves gear operational efficiency
- Excellent oxidation resistance extends relubrication intervals
- Good scuffing resistance due to anti-wear and EP additives

Gear lubricants that provide superior heat transfer, extreme pressure, and anti-wear properties for dependable performance.

# Syngear® applications

Here are a few of the thousands of possible applications:

- ▶ Calender stacks and super calenders in paper mills
- ▶ Conveyor worm drives
- ▶ Cooling tower fan drives
- ▶ Heavily loaded gear boxes in steel and tube mills
- ▶ Hoist gear boxes
- ▶ Longwall mining equipment
- ▶ Paper mill bearings and gear drives
- ▶ Power plant coal pulverizers
- ▶ Power plant fly ash blower bearings
- ▶ Rubber mill gear reducers
- ▶ Steel mill rod mill stand gear drives
- ▶ Steel mill roll neck bearings
- ▶ Vibrating screens
- ▶ Wire forming gear drives
- ▶ And many more



# Gear lubricant products

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## **EnviroTech EAL EP Gear Oils**

Environmentally responsible biodegradable gear oils designed for the protection of gears and bearings in systems where high-temperature and/or extreme pressure conditions exist.

## **Seamer Oil 150 P**

Formulated to lubricate the gear systems found in “once through” designed can closers used in food canning operations.

## **Seamer Oil 150 S**

Synthetic seamer gear oil that protects the gearing and other moving parts of can seaming equipment that recycles the used oil.

## **Syngear® FG Series**

Synthetic NSF H1 registered lubricants fortified with oxidation inhibitors as well as anti-wear/EP additives to pass the highest stages of the FZG test.

## **Syngear® Food Grade PG Series**

Synthetic NSF H1 registered polyglycol-based lubricants for use in enclosed gear, bearings, and compressors where conditions demand the unique properties of these fluids.

## **Syngear® Heavy Duty Series**

Synthetic gear oils which will not only reduce frictional drag, but will also protect gears against failures associated with heavy loading.

## **Syngear® PG Series**

Synthetic polyglycol-based lubricants with better wear protection, thermal and oxidation stability, and reduced sludge and deposit formation when compared to petroleum-based lubricants.

## **Syngear® SH-1000 Series**

Formulated with synthetic base stocks and fortified with select additive systems to enhance their exceptional performance in heavily loaded low speed gears and bearings where boundary or elasto-hydrodynamic lubrication (EHL) conditions exist.

## **Syngear® SH-7000 Series**

Synthetic gear and bearing lubricants formulated to provide maximum protection against wear, rust, corrosion and foaming, and offer improved thermal and oxidation stability.

## **Syngear® WT Series**

Synthetic, high performance gear lubricants enhanced with new generation anti-micropitting additives. The PAO base oil has outstanding oxidation and thermal stability, naturally high viscosity index and excellent low temperature pumpability and fluidity.

## **Syngear® PS FG Series**

Ideal for the lubrication of production equipment in beverage canning, bottling operations, meat and poultry processing, dairy operations, fruit and vegetable processing, bakeries, and pharmaceutical plants.

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## Summit Lubrication – partnering for success

Your expert in specialty lubricants. Since 1982, we have partnered with you to bring you the right solution and advanced lubrication technologies. With over 500 products, from air and gas compressor oils to refrigeration oils, we develop top-of-the-line products tailored to your specific needs. Your success is our success.

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