

Falk™ Gmax® 6000 Gear Drive  
Lubricants

Superior Wear Protection with  
Extended Operating Life (English-Inch)



# FALK™ GMAX® 6000 LUBRICANT

## Superior Wear Protection with Extended Operating Life

Horsepower, Heat, Moisture, and abrasive contamination are constantly working to break down your gear drive lubricant. With Falk GMax 6000 you don't have to worry! At Rexnord, we manufacture the highest quality gear drives, under the Falk and Rexnord name, in the world!

How fitting then that we have the highest quality gear drive lubricant in the world! GMax 6000 is designed to provide superior wear protection in the most demanding gear drive applications. GMax 6000 is a Polyalkylene Glycol based lubricant or PAG. PAG synthetics have exemplary lubricating properties over traditional— Polyalphaolefin or PAO Synthetics and mineral oils. The viscosity index of PAG lubricants is higher than that of PAO lubricants.

This means that a PAG will perform much better over the range of operating temperatures experienced by an industrial gear drive.

In addition, PAG synthetics have vastly superior friction characteristics compared to traditional PAO synthetics. Because of this, GMax 6000 will significantly lower the operating temperatures of the gearbox, thus resulting in a more efficient gear drive!

Max 6000 is water soluble therefore it does not separate from water. GMax 6000 also contains special corrosion prevention additive so it can handle the water. GMax 6000 has superior thermal and oxidation stability that reduces deposit buildup and sludge formation over competing PAO synthetic lubricants.

GMax 6000 provides greater gearing



protection in the harshest of operating environments. Due to the performance characteristics of GMax 6000, you can significantly extend the operating life of your lubricant to 15,000 hours from the normal 2500. This means reduced down time and cost over the life of your gear drives! GMax 6000 is safe to use in most of the gear drives in your facility, be they worm gear drives, or helical gear drives. This will allow you to reduce the variety of lubricant products in your inventory!

**NOTE: All Falk gear drives that are "Factory Filled" with GMax 6000 also come with a 10-year gear performance warranty! See the Rexnord warranty statement for full details.**



# Technical Advantages



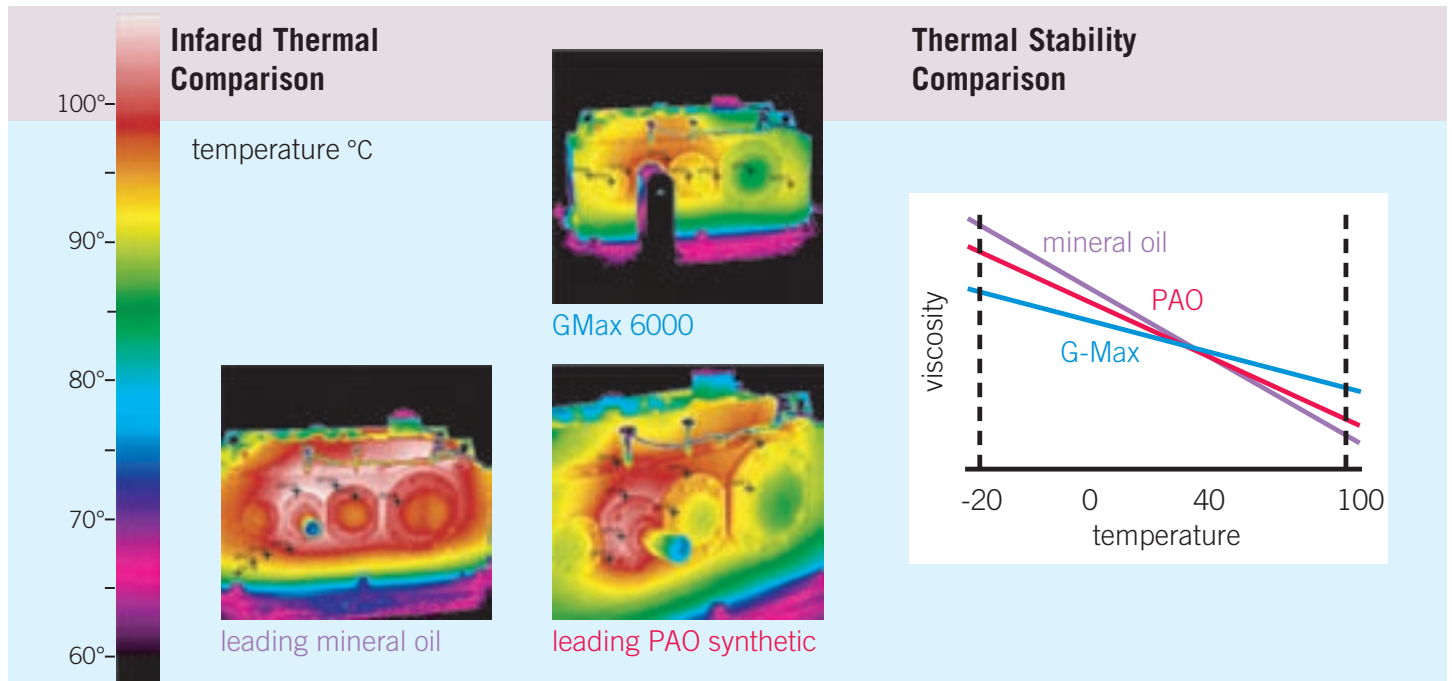
## Breakthrough Lubricant Technology

GMax 6000 is a synthetic high-performance gear lubricant. It is specially formulated to provide superior wear protection, extended gearing life, and reduced energy consumption in Falk industrial transmissions.

GMax 6000 goes beyond the abilities of other synthetic lubricants where long life and operational efficiency are desired. It is especially recommended for Falk gear drives that encounter severe operating conditions, such as high temperatures, water contamination and cold start-up conditions.

- Superior Viscosity Stability
- Reduced Operating Temperatures
- Extended Change Interval
- Eliminates Seasonal Changes and Costly Oil Heaters
- Unmatched Thermal Stability
- Low Coefficient of Friction
- Water Soluble
- Environmentally Friendly

NOTE: GMax 6000 is not compatible with mineral oil PAO synthetic lubricants and must not be topped off with either product. In addition GMax 6000 must not be used to top off systems containing either mineral oil or PAO synthetic lubricants. GMax 6000 may soften some types of industrial paints, and must not be used in gear drives that are painted inside.



# Why Should I Purchase GMax 6000?

## **GMAX VALUE PROPOSITION:**

Why purchase GMax? - Because GMax 6000 allows for extended change intervals and prevents the need for seasonal lubricant change thus significantly reducing the overall operating costs of your operation.

Example: A Falk A+Plus Size 485 drive contains about 60 gallons of lubricant per change. Operating this gear drive under normal conditions with a premium R&O lubricant would result in about 3 lubricant changes per year, costing about \$2,000 dollars, USD.

With GMax 6000, this interval goes from 3 changes per year to once every two years! This represents a savings of 300 gallons of lubricant and over \$2,000 dollars! Reducing lubricant change intervals translates into additional cost savings with less maintenance and lower disposal costs.



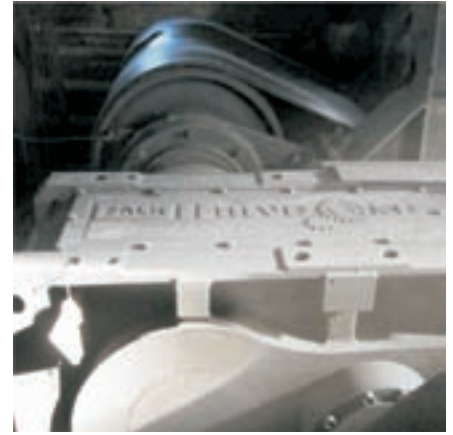
## **GMax 6000 Gear Performance Warranty**

The gearing in Falk drives factory filled with GMax 6000 lubricant shall be warranted for a period of ten years from date of shipment against tooth failure due to excessive wear or surface distress. This warranty is limited to surface hardened gearing only and is fully dependent upon the proper maintenance and care of the GMax lubricant. This includes but is not limited to documentation of regular and customary oil sampling to ensure performance of the lubricant. This warranty does not cover bearings, seals, through-hardened gearing, or other parts of the gear drive.

Complete warranty coverage in Rexnord's standard conditions of sale.



# Typical Properties of GMax 6000 Lubricant



## GMax 6000

<b>Density, Pounds per Gallon</b>	<b>8.9</b>
<b>Temperature Range, °C</b>	<b>-34 to 113</b>
<b>Viscosity @ 100°F , SUS</b>	<b>675</b>
<b>Viscosity @ 210°F , SUS</b>	<b>126</b>
<b>Viscosity @ 40°C , cSt</b>	<b>132</b>
<b>Viscosity @ 100°C , cSt</b>	<b>26</b>
<b>Viscosity Index</b>	<b>179</b>
<b>Pour Point, °C</b>	<b>-40</b>
<b>Flash Point, °C</b>	<b>254</b>
<b>Sulfur &amp; Chlorine EP Additives</b>	<b>Nil</b>
<b>Foam, ASTM D892</b>	<b>Nil</b>
<b>Copper Corrosion, ASTM D130</b>	<b>1lb</b>
<b>Thermal Stability, ASTM D2070</b>	<b>Pass</b>
<b>Rust Protection ASTM D665A</b>	<b>Pass</b>
<b>Drain Interval, Hours</b>	<b>15,000</b>

All values are nominal and subject change without notice.

- Fulfills all Falk lubrication requirements
- Reduces energy consumption
- Decreases operating temperatures
- Provides superior viscosity stability
- Affords exceptional wear protection
- Extends gearing fatigue life
- Eliminates seasonal lube changes
- Reduces low-temp starting torque
- Reduces fluid maintenance and disposal costs
- Improved tolerance of water contamination
- Compatible with Falk seals and backstops
- Non-toxic, non-irritating
- NSF H-2 approval: Pending
- Waste disposal classification: Non-hazardous
- DOT shipping classification: Not regulated

GMax 6000 is compatible with most conventional seal materials but is not compatible with mineral oils or synthetic hydrocarbons like PAO. To obtain optimal performance, equipment should be drained well and flushed with G-Max 6000 to remove the previous lubricant. Although small spills of GMax may be effectively rinsed with water, GMax should not be disposed of in sewers, on the ground, or into any body of water. Disposal must be in compliance with Federal, State/ Provincial and local regulations.

# ALSO AVAILABLE — FALK™ GMAX® 9000 LUBRICANT

## From the World Leader in Heavy-Duty Gearing Comes the World-Leading Heavy-Duty Lubricant

What is the single greatest contributing factor to shortened ring gear or pinion life? Wear! That's right, wear. And what is wear caused by? Lubricant breakdown. When open-gear lubricants break down due to any number of factors, you get wear.

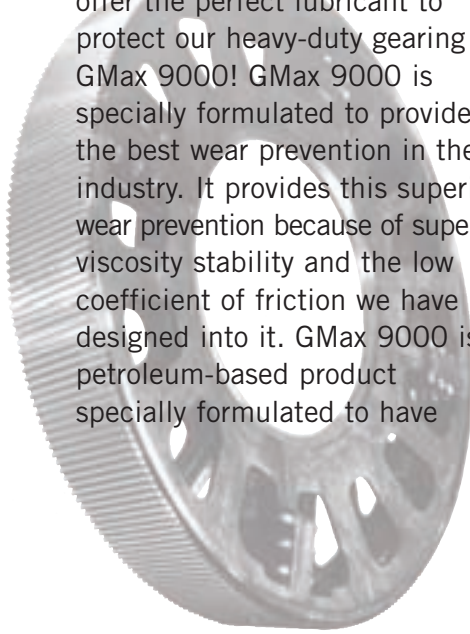
Lubricant forms a barrier between mating gear surfaces and prevents metal-to-metal contact. What happens when you fail to prevent such contact? Wear! How then do you extend the life of your gearing? With superior wear prevention!

At Rexnord Gear Group, we design and manufacture the highest quality heavy-duty gearing in the world. Now we also offer the perfect lubricant to protect our heavy-duty gearing - GMax 9000! GMax 9000 is specially formulated to provide the best wear prevention in the industry. It provides this superior wear prevention because of superior viscosity stability and the low coefficient of friction we have designed into it. GMax 9000 is a petroleum-based product specially formulated to have

superior viscosity, which leads to superior wear prevention.

In addition to the excellent viscosity, we have formulated additives for superior buildup prevention on gear teeth and free flow for overall superior gearing life.

At Rexnord Gear Group, we understand gearing, and we understand lubricants for gearing. That is what makes GMax 9000 the best heavy-duty ring gear lubricant.

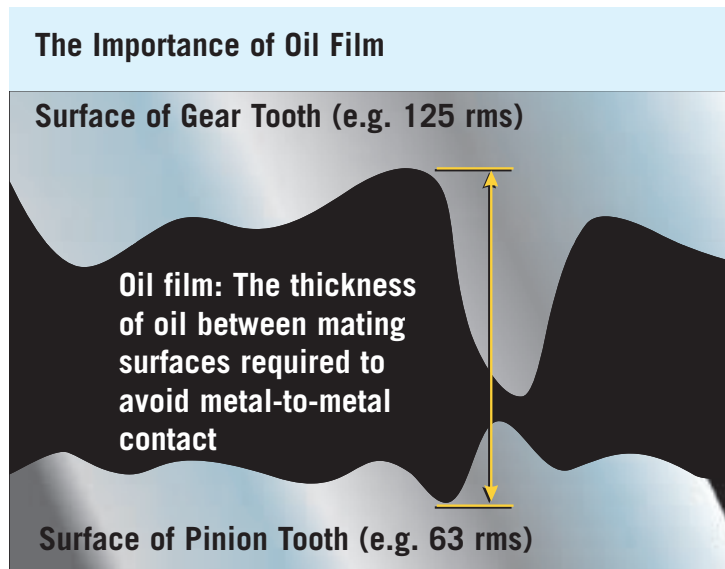


# Technical Advantages

A liquid's resistance to flowing is called its viscosity. The viscosity of a lubricant determines its film thickness during operation. The more viscous the lubricant, the greater its ability to prevent metal-to-metal contact of the teeth.

Most lubricant manufacturers use a low-viscosity base and therefore must add friction modifiers in an effort to increase film thickness during operation. Friction modifiers aid during start-up prior to establishing the operating film a thickness, but do nothing to increase the viscosity of the lubricant during operation.

Falk's GMax 9000 & 9000LT are formulated with both a high-viscosity base and friction modifiers to prevent metal-to-metal contact during operation and start up, thus providing **superior wear prevention!**



## New Technology

- Lower Consumption
- EP Additives
- Non-Chlorinated
- No Root Build-up
- Drainable
- No Nozzle Plugging
- Superior Viscosity
- Pumpable
- Non-Hazardous
- Reduced Gear Wear

## GMax 9000...

Is available in two formulations:

- 9000 for ambient temperature ranges over 30°F
- 9000 LT for ambient temperature ranges under 30°F

And your choice of sizes:

- 125 lb. kegs
- 1400 lb. drums
- Additional sizes available on request



# World Class Customer Service

For more than 100 years, the dedicated people of Rexnord have delivered excellence in quality and service to our customers around the globe. Rexnord is a trusted name when it comes to providing skillfully engineered products that improve productivity and efficiency for industrial applications worldwide. We are committed to exceeding customer expectations in every area of our business: product design, application engineering, operations, and customer service.

Because of our customer focus, we are able to thoroughly understand the needs of your business and have the resources available to work closely with you to reduce maintenance costs, eliminate redundant inventories and prevent equipment down time.

Rexnord represents the most comprehensive portfolio of power transmission and conveying components in the world with the brands you know and trust.

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