Mobil

# Mobilgear OGL Series

Mobil Industrial , Lithuania

Grease

## Product Description

Mobilgear OGL 007, 009, 2800 and 461 are high performance advanced technology lubricants which incorporate both extreme pressure additives and finely dispersed graphite for load carrying. They are intended primarily for the lubrication of large, slow to medium speed, heavily loaded gears. In addition to providing outstanding load carrying, they are formulated to have excellent adhesion and resistance to "fling-off" under extreme conditions. Mobilgear OGL 007, 009, 2800 and 461 are easily pumped from drums to application spray nozzles with conventional transfer pumps.The soft consistency and the low temperature properties of Mobilgear OGL 007, 009, 2800 and 461 are suited to spray applications operating under a wide variety of conditions. Mobilgear OGL 007, 009, 2800 and 461 are formulated with a carefully specified quality of finely dispersed graphite which contributes significantly to wear prevention under the boundary lubrication conditions found in the high load / slow speed operations typical of large open gearing. Furthermore Mobilgear OGL 2800 offers enhanced surface protection for open gear applications with a 12% content of solid EP additives.

## Features and Benefits

Mobilgear OGL 007, 009, 2800 and 461 are leading members of the Mobilgear brand of products that enjoy a worldwide reputation for performance and innovation. Developed by ExxonMobil research scientists and backed by a worldwide technical support staff, Mobilgear OGL 007, 009, 2800 and 461 have provided excellent protection and performance in large open gearing in a wide variety of industrial applications. Mobilgear OGL 007, 009, 2800 and 461 were developed to meet the requirements of Original Equipment Manufacturers (OEMs) and the needs of customers who prefer to use a soft to semi-fluid grease for heavily loaded, slow to medium speed open gearing. A critical need for products of this type is to separate the heavily loaded gear teeth and avoid surface wear and damage. Mobilgear OGL 007, 009, 2800 and 461 are formulated with a specific quality of finely dispersed graphite which has been shown by our researchers to contribute significantly to the elastohydrodynamic (EHL) film thickness under the high load / slow speed conditions typical of large open gearing.

| Features | Advantages and Potential Benefits |
|---|---|
| Special formulation provides outstanding load-carrying and anti-wear properties | Superior protection against wear and reduced gear replacement costs |
| Excellent pumpability and sprayability for the semi-fluid NLGI 00 grades | Efficient operation, good low temperature start-up and reduced energy consumption |
| Very good protection against rust and corrosion | Longer equipment life, reduced downtime and reduced maintenance costs |
| Very good adhesive nature of the product | Reduced fling-off, consumption and lower lubricant costs |
| Absence of lead, nitrite and solvent | Reduced impact on the environment |

## Applications

Mobilgear OGL 007, 009, 2800 and 461 are designed for the lubrication of large, slow to medium speed, heavily loaded gears in heavy-duty applications. Mobilgear OGL 007, 009 and 2800 are conveniently applied by spray on gear teeth. Mobilgear OGL 461 is also suitable to prime the surfaces of newly assembled open gears in order to provide lubrication during initial turning.The Mobilgear OGL Series is used in a wide variety of industrial sectors including Mining industries, including those that operate at high temperatures, for example, ring gears on cement kilns and ball mills Steel, cement, paper and chemical applications.

## Properties and Specifications

| Property | Mobilgear OGL | Mobilgear OGL | Mobilgear OGL | Mobilgear OGL |
|---|---|---|---|---|

| | 007 | 009 | 2800 | 461 |
|---|---|---|---|---|
| Grade | NLGI 00.5 | NLGI 00.5 | NLGI 00.5 | NLGI 1.5 |
| Penetration, Worked, 25 C, 0.1 mm, ASTM D217 | 405 | 405 | 405 | 305 |
| Viscosity @ 40 C, Base Oil, mm2/s, ASTM D445 | 460 | 1500 | 2800 | 460 |
| Color, Visual | Black | Black | Black | Black |
| Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D4048 | 1B | 1B | 1B | 1B |
| Corrosion Prevention, Rating, ASTM D1743 | Pass | Pass | Pass | Pass |
| Dropping Point, °C, ASTM D2265 | 180 | 180 | 180 | 180 |
| FZG Scuffing, Fail Load Stage, A/2.8/50., ISO 14635-3 | | 12+ | 12+ | |
| FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1 | 12+ | 12+ | | |
| Four-Ball Extreme Pressure Test, Weld Point, kgf, ASTM D2596 | 620 | 620 | 620 | 620 |
| Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266 | 0.5 | 0.5 | 0.3 | 0.6 |

**Health and Safety**

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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