



## Mobilgear OGL 007, 009 and 461

### Grease

#### Product Description

Mobilgear OGL 007, 009 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 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 and 461 are suited to spray applications operating under a wide variety of conditions. Mobilgear OGL 007, 009 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.

#### Features and Benefits

Mobilgear OGL 007, 009 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 and 461 have provided excellent protection and performance in large open gearing in a wide variety of industrial applications. Mobilgear OGL 007, 009 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 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 and 461 are designed for the lubrication of large, slow to medium speed, heavily loaded gears in heavy-duty applications. Mobilgear OGL 007 and 009 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

#### Typical Properties

Mobilgear OGL	007	009	461
NLGI Grade	00 - 0	00 - 0	1.5
Colour Visual	Black	Black	Black

Colour, visual	Black	Black	Black
Penetration, Worked, 25°C, ASTM D 217, mm/10405		405	305
Dropping Point, °C, ASTM D 2265	200	200	200
Viscosity of Oil, ASTM D 445			
cSt @ 40°C	460	1500	460
FZG Gear Test, DIN 51354, A/2.76/50 Fail Stage 12+		12+	Not Applicable
Wear, mg/kWh	0.25	0.25	Not Applicable
4-Ball Wear, ASTM D 2266, Scar, mm	0.5	0.5	0.6
4-Ball Weld Test, ASTM D 2596, weld load, kg	800	800	800
Corrosion Protection, ASTM D 1743	Pass	Pass	Pass

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contact office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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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](http://www.exxonmobil.com)

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