

# Product Data Sheet

## Mobilgear OGL 007 & 009 Open Gear Lubricants

### Product Description

Mobilgear OGL 007 and 009 are high performance advanced technology semi-fluid lubricants that 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 and 009 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 and 009 are suited to spray applications operating under a wide variety of conditions.

Mobilgear OGL 007 and 009 are lead-free and chlorine-free, contains no solvent or diluent. The absence of solvent or diluent also helps enable the products to maintain full specification during storage and use.

### Features & Benefits

Mobilgear OGL 007 and 009 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 and 009 have provided excellent protection and performance in large open gearing in a wide variety of industrial applications.

Mobilgear OGL 007 and 009 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 and 009 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.

<b>Features</b>	<b>Advantages and Potential Benefits</b>
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 and 009 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.

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

<b>Mobilgear OGL</b>		<b>007</b>	<b>009</b>
	Test Method		
NLGI Grade		00	00
Colour	Visual	Black	Black
Penetration, Worked, 25°C, mm/10	ASTM D 217	405	405
Dropping Point, °C	ASTM D 2265	200	200
Viscosity of Oil, cSt at 40°C	ASTM D 445	460	1500
FZG Gear Test, A/2.76/50	DIN 51354		
	Fail Stage,	12+	12+
	Wear, mg/kWh	0.25	0.25
4-Ball Wear, Scar, mm	ASTM D 2266	0.5	0.5
4-Ball Weld Test, weld load, kg	ASTM D 2596	800	800
Corrosion Protection	ASTM D 1743	Pass	Pass

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Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly. All products may not be available locally.

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## 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 Esso Petroleum Company, Ltd., by telephoning 01372 222000. 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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