



Mobilgear OGL Series

Mobil Industrial, Germany

Grease

Product Description

Mobilgear OGL 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 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 009 and 461 are suited to spray applications operating under a wide variety of conditions. Mobilgear OGL 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 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 009 and 461 have provided excellent protection and performance in large open gearing in a wide variety of industrial applications. Mobilgear OGL 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 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 009 and 461 are designed for the lubrication of large, slow to medium speed, heavily loaded gears in heavy-duty applications. Mobilgear OGL 009 is 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	461	009
Grade	NLGI 1.5	NLGI 00.5
Base Oil Viscosity of Greases @ 40 C, mm ² /s, AMS 1697	460	1500
Color, Visual	Black	Black
Corrosion Prevention, Rating, ASTM D1743	PASS	
Corrosion Preventive Properties, Rating, ASTM D1743		PASS
Dropping Point, °C, ASTM D2265	200	200
FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1		12+
FZG Scuffing, Specific Weight Loss, A/2.8/50, ISO 14635-3		0.25
Four-Ball Extreme Pressure Test, Weld Point, kgf, ASTM D2596	800	800+
Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266	0.6	0.5
Penetration, Worked, 25 C, 0.1 mm, ASTM D217	305	405

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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