



## MOBILGEAR™ EP SERIES

Mobil Industrial , Malaysia

Gear Oil

### Product Description

Mobilgear™ EP Series are industrial extreme pressure gear oils formulated with high quality mineral oils, which help reduce sludge formation, helping to increase oil service life.

Mobilgear EP Series contain an additive system that gives high load carrying ability and protection against wear, plus protection against corrosion.

Mobilgear EP Series have good water handling properties and can be used in either splash or circulating systems.

Mobilgear EP Series are suitable for use wherever industrial gear oils are specified, and provide protection in applications where shock loading occurs.

### Features and Benefits

Mobilgear EP Series can handle a variety of industrial gear applications. They are manufactured with high quality mineral stocks and a specially chosen additive system, under the highest level of quality assurance and control in our modern blending facilities.

Mobilgear EP Series offer the following benefits:

- EP wear protection of gears and bearings
- Resistance to sludge formation
- Good oxidation resistance for long oil change life
- Good demulsibility to ease water removal
- Applicable for use in splash or circulation systems

### Applications

Mobilgear EP Series are suitable in a wide range of industrial spur, helical, bevel and steel-on-steel worm gearing, including drives for conveyers, agitators, dryers, fans, mixers, presses, pulpers, pumps, screens, extruders, and oil well pumps.

### Specifications and Approvals

This product meets or exceeds the requirements of:	MOBILGEAR EP 150	MOBILGEAR EP 220	MOBILGEAR EP 320	MOBILGEAR EP 460
China GB 5903-2011, L-CKD	X	X	X	X

### Properties and Specifications

Property	MOBILGEAR EP 150	MOBILGEAR EP 220	MOBILGEAR EP 320	MOBILGEAR EP 460
Grade	ISO 150	ISO 220	ISO 320	ISO 460
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1A	1A	1A	
Density @ 15 C, g/ml, ASTM D1298	0.89			
Density @ 15 C, kg/l, ASTM D4052		0.89	0.90	0.90

Property	MOBILGEAR 150	EP	MOBILGEAR 220	EP	MOBILGEAR 320	EP	MOBILGEAR 460	EP
EP Properties, Timken OK Load, lb, ASTM D2782	60		60				60	
Emulsion, Time to 37 mL Water, 82 C, min, ASTM D1401	30		30		30		35	
FZG Scuffing, A/8.3/90, Fail Stage, Rating, DIN 51354	12+		12+		12+		12+	
Flash Point, Cleveland Open Cup, °C, ASTM D92	230				240		240	
Four-Ball Extreme Pressure Test, Load Wear Index, kgf, ASTM D2783	56		60		60		60	
Four-Ball Extreme Pressure Test, Weld Load, kgf, ASTM D2783	300		300		300			
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	14.7		19		24.1		30.6	
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445			220		320		460	
Pour Point, °C, ASTM D97	-24						-15	
Rust Characteristics, Procedure B, ASTM D665	Pass		Pass		Pass		Pass	
Viscosity Index, ASTM 2270							96	
Viscosity Index, ASTM D2270	97		97		97			

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

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