

# Mobilgear™ 600 XP Series

Extra high-performance gear oils



Energy lives here

Today's smaller gearboxes with higher power density create greater demands on lubricants. That's why Mobilgear™ 600 XP Series oils are formulated to offer exceptional extreme-pressure and load-carrying properties. These capabilities can help:

- Minimize unplanned equipment and maintenance downtime
- Boost productivity through trouble-free operation
- Limit repair and replacement costs

## Key benefits



Helps limit equipment replacement costs through exceptional protection against wear and micropitting



Long bearing life can help boost productivity by limiting maintenance downtime and minimizing bearing replacement costs

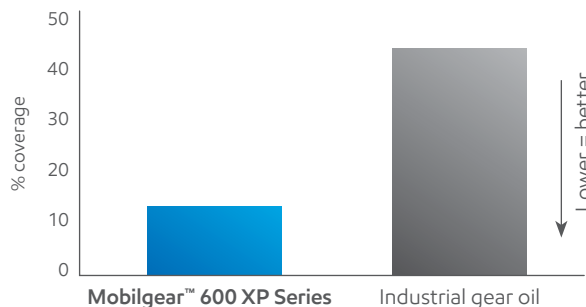


Helps minimize leaks, oil consumption and contamination through excellent seal compatibility

## Micropitting protection

In controlled laboratory testing illustrating micropitting formation on gear teeth, Mobilgear 600 XP Series oils provided outstanding protection compared to generic oils. This capability can help enhance equipment life to save you repair and replacement costs.

### Average micropitting on gear teeth



# 15x

the industry requirement for wear protection\*

## Meets or exceeds the requirements of:

- AGMA 9005-EO2
- DIN 51517-3: 2009-06
- ISO 12925-1

## Builder approvals†

- SIEMENS AG Flender gear units, T 7300, Table A-a
- SIEMENS AG Flender gear units, T 7300, Table E-am, Flender Code No.
- Mueller Weingarten DT 55 005

\*As measured by the industry standard FAG FE 8 test.  
 †See Product Data Sheet (PDS) at mobilindustrial.com for which oils have these approvals.

# Mobilgear™ 600 XP Series

## Typical properties\*

| Mobilgear 600 XP  | 68   | 100       | 150       | 220       | 320       | 460       | 680       |
|---|------|-----------|-----------|-----------|-----------|-----------|-----------|
| ISO Viscosity Grade   | 68   | 100       | 150       | 220       | 320       | 460       | 680       |
| Viscosity, ASTM D 445   |      |           |           |           |           |           |           |
| cSt @ 40°C  | 68   | 100       | 150       | 220       | 320       | 460       | 680       |
| cSt @ 100°C   | 8.8  | 11.2      | 14.7      | 19.0      | 24.1      | 30.6      | 39.2      |
| Viscosity Index, ASTM D 2270  | 101  | 97        | 97        | 97        | 97        | 96        | 90        |
| Pour Point, °C, ASTM D 97   | -27  | -24       | -24       | -24       | -24       | -15       | -9        |
| Flash Point, °C, ASTM D 92  | 230  | 230       | 230       | 240       | 240       | 240       | 285       |
| Density @15.6°C, ASTM D 4052, kg/l                                  | 0.88 | 0.88      | 0.89      | 0.89      | 0.90      | 0.90      | 0.91      |
| FZG Micropitting, FVA 54, Fail Stage / Rating                       |      | 10 / High | 10 / High | 10 / High | 10 / High | 10 / High | 10 / High |
| FE 8 wear test, DIN 51819-3, D7,5/80-80.<br>Roller wear, mg         | 2    | 2         | 2         | 2         | 2         | 2         | 2         |
| Timken OK Load, ASTM D 2782, lb                                     | 65   | 65        | 65        | 65        | 65        | 65        | 65        |
| 4-Ball EP test, ASTM D 2783,  |      |           |           |           |           |           |           |
| Weld Load, kg   | 200  | 200       | 250       | 250       | 250       | 250       | 250       |
| Load Wear Index, kgf  | 47   | 47        | 47        | 48        | 48        | 48        | 48        |
| FZG Scuffing, Fail Stage  |      |           |           |           |           |           |           |
| A/8.3/90  | 12+  | 12+       | 12+       | 12+       | 12+       | 12+       | 12+       |
| A/16.6/90   |      | 12+       | 12+       | 12+       | 12+       | 12+       | 12+       |
| Rust protection, ASTM D 665, Sea Water                              | Pass | Pass      | Pass      | Pass      | Pass      | Pass      | Pass      |
| Copper Strip Corrosion, ASTM D 130, 3 hrs @ 100°C                   | 1B   | 1B        | 1B        | 1B        | 1B        | 1B        | 1B        |
| Demulsibility, ASTM D 1401, Time to 3ml emulsion,<br>minutes @ 82°C | 30   | 30        | 30        | 30        | 30        | 30        | 30        |
| Foam Test, ASTM D 892, Tendency/Stability,<br>ml/ml Sequence 1      | 0/0  | 0/0       | 0/0       | 0/0       | 0/0       | 0/0       | 0/0       |
| Sequence 2  | 30/0 | 30/0      | 30/0      | 30/0      | 30/0      | 30/0      | 30/0      |

### Industrial Lubricants



### Advancing Productivity™

### Safety

Through long lubricant life, enhanced gearbox cleanliness and optimized equipment reliability, Mobilgear™ 600 XP Series oils minimize the need for maintenance and the safety risks associated with employee-equipment interaction.

### Environmental Care†

Long drain intervals and enhanced gear and bearing life help reduce the need for waste disposal, which can help your operation minimize its environmental footprint.

### Productivity

By optimizing equipment reliability and availability, Mobilgear 600 XP Series oils are formulated to help you achieve peak productivity.

\*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 Mobil lubricants contact or visit mobilindustrial.com. ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

†Visit mobilindustrial.com to learn how certain Mobil-branded lubricants may provide benefits to help minimize environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

© 2016 Exxon Mobil Corporation. All rights reserved.  
All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its affiliates unless otherwise noted.

[mobilindustrial.com](http://mobilindustrial.com)