# Mobilux™ EP Series

Mobil Grease , Greece

Grease

## Product Description

Mobilux™ EP 0, 1, 2, 3, 004 and 023 products are a high performance family of four general-purpose industrial greases and two special-duty semi-fluid greases. These lithium hydroxystearate greases are formulated to provide extra protection against wear, rusting and water washout. They are available in NLGI grades ranging from 00 to 3, with base oil viscosities ISO VG 150 and 320.

Mobilux EP 0, 1, 2 and 3 greases are recommended for most types of industrial applications including heavy-duty applications where high unit pressures or shock loads are present. These greases provide excellent protection against rust and corrosion and resist water wash-out which makes them particularly suitable for equipment where moist or wet conditions are common. Mobilux EP 0 and 1 are suitable for centralised systems. Mobilux EP 2 and 3 are general-purpose greases. The recommended operating temperature range is from -20°C to 130°C but they may be used at higher temperatures if the lubrication frequency is increased accordingly.

Mobilux EP 004 and Mobilux EP 023 are particularly suitable for the lubrication of enclosed gears and bearings in poorly sealed gear cases they can also be used in many other industrial applications where conventional gear oils cannot be retained in gear cases, chain cases, etc. because of leakage due to worn or missing seals. The recommended operating temperature range is -20 to 120°C for Mobilux EP 004 and -20 to 120°C for Mobilux EP 023.

## Features and Benefits

Mobilux EP greases have a long history of proven performance and have demonstrated good performance in the areas of corrosion protection, low temperature pumpability and high temperature service life. A Timken OK load of 40 lb illustrates their load carrying and extreme pressure capability.

- Reduced wear under heavy or shock loading and vibration for good equipment reliability and availability
- Protection against rust and corrosion and resistance to water washout for equipment protection and good lubrication even in presence of water
- Extended bearing life potential in wet environments for reduced bearing costs and unanticipated downtime
- Good pumpability in centralised systems (Mobilux EP 0 and 1)
- Effective leakage control (Mobilux EP 004 and Mobilux EP 023)

## Applications

- Mobilux EP 0 and EP 1 provide good low temperature pumpability and are suitable for centralised lubrication systems and other applications where low temperature performance is required.
- Mobilux EP 2 is recommended for multipurpose applications in antifriction and plain bearings, bushings and pins under normal operating conditions.
- Mobilux EP 3 is a stiffer NLGI grade 3 grease recommended for applications where maximum protection against penetration of water or solid contaminants is required.
- Mobilux EP 004 and Mobilux EP 023 are particularly suitable for the lubrication of enclosed gears and bearings in poorly sealed gear cases on most underground mining machinery with the exception of electric motor gearings. Mobilux EP 004 and Mobilux EP 023 can also be used in many other industrial applications where conventional gear oils cannot be retained in equipment such as gear cases, chain cases, because of leakage due to worn or missing seals.

## Specifications and Approvals

| This product has the following approvals: | MOBILUX EP 0 | MOBILUX EP 1 | MOBILUX EP 2 | MOBILUX EP 3 | MOBILUX EP 004 | MOBILUX EP 023 |
|---|---|---|---|---|---|---|
| SEW-Eurodrive | | | | | X | |

| This product meets or exceeds the requirements of: | MOBILUX EP 0 | MOBILUX EP 1 | MOBILUX EP 2 | MOBILUX EP 3 | MOBILUX EP 004 | MOBILUX EP 023 |
|---|---|---|---|---|---|---|
| DIN 51825:2004-06 - KP 1 K -20 | | X | | | | |
| DIN 51825:2004-06 - KP 2 K -20 | | | X | | | |
| DIN 51825:2004-06 - KP 3 K -20 | | | | X | | |
| DIN 51826:2005-01 - GP 000 G -20 | | | | | | X |
| DIN 51826:2005-01 - GP 00 G -20 | | | | | X | |
| DIN 51826: 2005-01 GP0G-10 | X | | | | | |

## Properties and Specifications

| Property | MOBILUX EP 0 | MOBILUX EP 1 | MOBILUX EP 2 | MOBILUX EP 3 | MOBILUX EP 004 | MOBILUX EP 023 |
|---|---|---|---|---|---|---|
| Grade | NLGI 0 | NLGI 1 | NLGI 2 | NLGI 3 | NLGI 00 | NLGI 000 |
| Thickener Type | Lithium | Lithium | Lithium | Lithium | Lithium | Lithium |
| Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D4048 | 1A | 1A | 1A | 1A | | 1A |
| Dropping Point, °C, ASTM D2265 | 190 | 190 | 190 | 190 | | |
| Four-Ball Extreme Pressure Test, Weld Point, kgf, ASTM D2596 | 250 | 250 | 250 | 250 | 250 | 250 |
| Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 |
| Penetration, 60X, 0.1 mm, ASTM D217 | 370 | 325 | 280 | 235 | 415 | 460 |
| SKF Emcor Rust Test, Distilled Water, ASTM D6138 | 0 , 0 | 0 , 0 | 0 , 0 | 0 , 0 | 0 , 0 | 0 , 0 |
| Timken OK Load, lb, ASTM D2509 | 40 | 40 | 40 | 40 | 40 | 40 |
| Viscosity @ 100 C, Base Oil, mm2/s, ASTM D445 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 23.4 |
| Viscosity @ 40 C, Base Oil, mm2/s, ASTM D445 | 160 | 160 | 160 | 160 | 160 | 320 |
| Viscosity Index, ASTM D2270 | 91 | 91 | 91 | 91 | 91 | 92 |

## 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

All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries unless indicated otherwise.

03-2024
ExxonMobil Lubricants & Specialties

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

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.

© Copyright 2003-2024 Exxon Mobil Corporation. All Rights Reserved