



Mobilux™ EP 0, 1, 2, 3, 460, 004 and 023

Grease

Product Description

Mobilux™ EP 0, 1, 2, 3, 460, 004 and 023 products are a high performance family of five 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, 320 and 460.

Mobilux EP 0, 1, 2, 3 and 460 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 and Mobilux EP 460 is used in heavy-duty applications such as the wet ends of paper machines. The recommended operating temperature range is from -20°C to 130°C (0°C to 130°C for Mobilux EP 460) 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 -25 to 120°C for Mobilux EP 004 and -15 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 460 is recommended for the lubrication of low to moderate speed, heavily loaded bearings including those subject to high unit pressures or shock loads. These include steel and paper mills, underground mining, tunneling, ore crushing plants and other heavy-duty applications where moist or wet conditions are common.
- 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. Mobilux EP 004 passes the SEW 1008 hour gear test requirement DR.EM.203 mod.

Specifications and Approvals

Mobilux EP meets or exceeds the requirements of:	Mobilux EP 0	Mobilux EP 1	Mobilux EP 2	Mobilux EP 3	Mobilux EP 460	Mobilux EP 004	Mobilux EP 023
DIN 51825: (2004-06)		KP1K-30	KP2K-30	KP3K-20	KP2K-20		
DIN 51826: (2005-01)	GP0G-20					GP00G-20	GP000G-20

Mobilux EP has the following builder approvals	Mobilux EP 0	Mobilux EP 1	Mobilux EP 2	Mobilux EP 3	Mobilux EP 460	Mobilux EP 004	Mobilux EP 023
SEW Eurodrive/ PS C Gears						X	

Typical Properties

	Mobilux EP 0	Mobilux EP 1	Mobilux EP 2	Mobilux EP 3	Mobilux EP 460	Mobilux EP 004	Mobilux EP 023
NLGI Grade	0	1	2	3	2	00	000
Thickener Type	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
Color, Visual	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Penetration, Worked, 25°C, ASTM D 217	370	325	280	235	280	415	460
Viscosity of Oil, ASTM D 445							
cSt @ 40°C	160	160	160	160	460	160	320
Timken OK Load, ASTM D 2509, lb	40	40	40	40	40	40	40
4-Ball Wear, ASTM D 2266, Scar, mm	0.4	0.4	0.4	0.4	0.4	0.5	0.4
4-Ball Weld Load, ASTM D 2596, Kg	250	250	250	250	250	250	250
Dropping Point, D 2265, C	190	190	190	190	190		
Rust Protection, ASTM D 6138, Distilled Water	0-0	0-0	0-0	0-0	0-0	0-0	0-0

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 your sales contract office, or via the Internet. 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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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

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