



## MOTTA EP Series

MOTTA Grease , United States

Grease

### Product Description

MOTTA EP 0, 1, 2, 3, 00 and 000 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.

MOTTA 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. MOTTA EP 0 and 1 are suitable for centralised systems. MOTTA 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.

MOTTA EP 00 and MOTTA EP 000 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 MOTTA EP 00 and -20 to 120°C for MOTTA EP 000.

### Features and Benefits

MOTTA 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 (MOTTA EP 0 and 1)
- Effective leakage control (MOTTA EP 00 and MOTTA EP 000)

### Applications

- MOTTA 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.
- MOTTA EP 2 is recommended for multipurpose applications in antifriction and plain bearings, bushings and pins under normal operating conditions.
- MOTTA EP 3 is a stiffer NLGI grade 3 grease recommended for applications where maximum protection against penetration of water or solid contaminants is required.
- MOTTA EP 00 and MOTTA EP 000 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. MOTTA EP 00 and MOTTA EP 000 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:	MOTTA EP 0	MOTTA EP 1	MOTTA EP 2	MOTTA EP 3	MOTTA EP 00	MOTTA EP 000
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SEW-Eurodrive

X

This product meets or exceeds the requirements of:	MOTTA EP 0	MOTTA EP 1	MOTTA EP 2	MOTTA EP 3	MOTTA EP 00	MOTTA EP 000
VOLVO 97718			X			
DIN 51825:200-06 - KP 1 K -20		X				
DIN 51825:200-06 - KP 2 K -20			X			
DIN 51825:200-06 - 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	MOTTA EP 0	MOTTA EP 1	MOTTA EP 2	MOTTA EP 3	MOTTA EP 00	MOTTA EP 000
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, mm <sup>2</sup> /s, ASTM D445	14.8	14.8	14.8	14.8	14.8	23.4
Viscosity @ 40 C, Base Oil, mm <sup>2</sup> /s, ASTM D445	160	160	160	160	160	320
Viscosity Index, ASTM D2270	91	91	91	91	91	92

## Health & Safety

For health and safety recommendations, please refer to the Material Safety Data Sheet (MSDS), available at:  
[<http://www.motta-lube.com>](<http://www.motta-lube.com>)

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### Manufacturer Information

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> Note: Typical values are obtained under normal production conditions and are not product specifications. Variations may occur between batches, but performance remains consistent.  
Information is subject to change without notice.