



SKF Bearing greases and their applications

LGMT 2

SKF general purpose industrial and automotive bearing grease

LGMT 2 is mineral oil based lithium soap thickened grease with excellent thermal stability within its operating temperature range. This premium quality, general purposes grease is suitable for a wide range of industrial and automotive applications.

- Excellent oxidation stability
- Good mechanical stability
- Excellent water resistance and rust inhibiting properties

Typical applications:

- Agricultural equipment
- Automotive wheel bearings
- Conveyors
- Small electric motors
- Industrial fans



Bearing operating conditions

Temperature	Medium
Speed	Medium
Load	Low to Medium
Vertical shaft	○
Fast outer ring rotation	—
Oscillating movements	—
Severe vibrations	+
Shock load or frequent start-up	—
Low noise	—
Low friction	○
Rust inhibiting properties	+
+ = Recommended ○ = Suitable — = Not suitable	

Available pack sizes LGMT 2

	35 g tube	200 g tube
420 ml cartridge	1 kg can	5 kg can
18 kg can	50 kg drum	180 kg drum

LGMT 3

SKF general purpose industrial and automotive bearing grease

LGMT 3 is mineral oil based lithium soap thickened grease. This premium quality, general purposes grease is suitable for a wide range of industrial and automotive applications.

- Excellent rust inhibiting properties
- High oxidation stability within its recommended temperature range

Typical applications:

- Bearings >100 mm (3,9 in) shaft size
- Outer bearing ring rotation
- Vertical shaft applications
- Continuous high ambient temperatures >35 °C (95 °F)
- Propeller shafts
- Agricultural equipment
- Car, truck and trailer wheel bearings
- Large electric motors



Bearing operating conditions

Temperature	Medium
Speed	Medium
Load	Low to Medium
Vertical shaft	+
Fast outer ring rotation	○
Oscillating movements	—
Severe vibrations	+
Shock load or frequent start-up	—
Low noise	—
Low friction	○
Rust inhibiting properties	○
+ = Recommended ○ = Suitable — = Not suitable	

Available pack sizes LGMT 3

	1 kg can	5 kg can
420 ml cartridge	50 kg drum	180 kg drum

LGEP 2

SKF high load, extreme pressure (EP) bearing grease

LGEP 2 is mineral oil based lithium soap thickened grease with extreme pressure additives. This grease provides good lubrication in operating temperatures ranging from -20 °C (-4 °F) up to 110 °C (230 °F).

- Excellent mechanical stability
- Extremely good corrosion inhibiting properties
- Excellent EP performance

Typical applications:

- Pulp and paper making machines
- Jaw crushers
- Traction motors for rail vehicles
- Dam gates
- Work roll bearings in steel industry
- Heavy machinery, vibrating screens
- Crane wheels, sheaves



Bearing operating conditions

Temperature	Medium
Speed	Low to Medium
Load	High
Vertical shaft	○
Fast outer ring rotation	—
Oscillating movements	○
Severe vibrations	+
Shock load or frequent start-up	+
Low noise	—
Low friction	—
Rust inhibiting properties	+
+ = Recommended ○ = Suitable — = Not suitable	

Available pack sizes LGEP 2

420 ml cartridge	1 kg can	5 kg can
18 kg can	50 kg drum	180 kg drum

LGFP 2

SKF food compatible bearing grease

LGFP 2 is clean, non-toxic bearing grease, which is based on medical white oil using an aluminium complex soap. This grease is formulated using only FDA* listed ingredients and is authorised by the NSF** for category H1*** service.

- Compliance with all existing legislation on food protection
- High resistance to water washout making it suitable for applications subject to frequent wash down
- Excellent grease life
- Excellent corrosion resistance
- An essentially neutral pH value

Typical applications:

- Bakery equipment
- Food processing equipment
- Multi-pack cassette bearings
- Wrapping machines
- Conveyor bearings
- Bottling machines

- * FDA – Food and Drug Administration
- ** NSF – National Sanitation Foundation
- *** H1 – Incidental Contact with Food



Bearing operating conditions

Temperature	Medium
Speed	Medium
Load	Low to Medium
Vertical shaft	○
Fast outer ring rotation	—
Oscillating movements	—
Severe vibrations	—
Shock load or frequent start-up	—
Low noise	—
Low friction	○
Rust inhibiting properties	+
+ = Recommended ○ = Suitable — = Not suitable	

Available pack sizes LGFP 2

SYSTEM 24	420 ml cartridge
1 kg can	18 kg can
180 kg drum	



Re-lubrication

LGEM 2

SKF High viscosity bearing grease with solid lubricants

LGEM 2 is a premium quality, high viscosity, mineral oil based grease using a lithium soap containing molybdenum disulphide and graphite.

- Good lubrication for bearings operating under high loads and slow rotations
- Safe lubrication due to the inclusion of molybdenum disulphide and graphite

Typical applications:

- Rolling element bearings running at low speed and very high loads
- Jaw crushers
- Track laying machines
- Lift mast wheels
- Building machines such as mechanical rams, crane arms and crane hooks



Bearing operating conditions

Temperature	Medium
Speed	Very Low
Load	High to Very High
Vertical shaft	○
Fast outer ring rotation	—
Oscillating movements	+
Severe vibrations	+
Shock load or frequent start-up	+
Low noise	—
Low friction	—
Rust inhibiting properties	+
+ = Recommended ○ = Suitable — = Not suitable	

Available pack sizes LGEM 2

SYSTEM 24		
420 ml cartridge	5 kg can	18 kg can
		180 kg drum

LGEV 2

SKF Extremely high viscosity bearing grease with solid lubricants

LGEV 2 is a premium quality, extremely high viscosity, mineral oil based grease using a lithium–calcium soap containing molybdenum disulphide and graphite.

- Excellent lubrication properties due to the inclusion of molybdenum disulphide and graphite solid
- Extremely suitable for lubricating large sized spherical roller bearings subject to high loads and slow rotations, a situation where microslip is likely to occur
- Extremely mechanically stable providing good water resistance and corrosion protection

Typical applications:

- Trunnion bearings on rotating drums
- Support and thrust rollers on rotary kilns and dryers
- Bucket wheel excavators
- Slewing ring bearings
- High pressure roller mills
- Crushers



Bearing operating conditions

Temperature	Medium
Speed	Very Low
Load	High to Very High
Vertical shaft	○
Fast outer ring rotation	—
Oscillating movements	+
Severe vibrations	+
Shock load or frequent start-up	+
Low noise	—
Low friction	—
Rust inhibiting properties	+
+ = Recommended ○ = Suitable — = Not suitable	

Available pack sizes LGEV 2

35 g tube		
420 ml cartridge		5 kg can
18 kg can	50 kg drum	180 kg drum

LGLT 2

SKF low temperature, extremely high speed bearing grease

LGLT 2 is premium quality, fully synthetic oil based grease using lithium soap. Its unique thickener technology and its low viscosity oil (PAO) provide excellent lubrication performances at low temperatures (–50 °C) and extremely high speeds n.dm values of 1.6×10^6 can be reached.

- Low friction torque
- Low level of power loss
- Quiet running behaviour
- Extremely good oxidation stability and resistance to water

Typical applications:

- Textile spinning spindles
- Machine tool spindles
- Instruments and control equipment
- Small electric motors used in medical and dental equipment
- In-line skates
- Printing cylinders
- Robots



Bearing operating conditions

Temperature	Low to Medium
Speed	Medium to Extremely High
Load	Low
Vertical shaft	○
Fast outer ring rotation	—
Oscillating movements	—
Severe vibrations	—
Shock load or frequent start-up	○
Low noise	+
Low friction	+
Rust inhibiting properties	○
+ = Recommended ○ = Suitable — = Not suitable	

Available pack sizes LGLT 2

	200 g tube
1 kg can	
25 kg can	180 kg drum

LGGB 2

SKF green biodegradable bearing grease

LGGB 2 is biodegradable, low toxicity, synthetic ester oil based grease using a lithium–calcium thickener. It has excellent lubrication properties for a wide range of applications operating under different conditions.

- Compliance with current regulations on toxicity and biodegradability
- Good performance in applications with steel–on–steel spherical plain bearings, ball bearings and roller bearings
- Good low temperature start–up performance
- Good corrosion inhibiting properties
- Suitable for medium to high loads

Typical applications:

- Agricultural and forestry equipment
- Construction and earthmoving equipment
- Mining and conveying equipment
- Water treatment and irrigation
- Locks, dams, bridges
- Linkages, rod ends
- Other applications where contamination of the environment is a concern



Bearing operating conditions

Temperature	Low to Medium
Speed	Low to Medium
Load	Medium to High
Vertical shaft	○
Fast outer ring rotation	—
Oscillating movements	+
Severe vibrations	+
Shock load or frequent start-up	+
Low noise	—
Low friction	○
+ = Recommended ○ = Suitable — = Not suitable	

Available pack sizes LGGB 2

SYSTEM 24	
420 ml cartridge	5 kg can
18 kg can	180 kg drum



Re-lubrication

LGWM 1

SKF extreme pressure low temperature bearing grease

LGWM 1 is a mineral oil based grease using a lithium soap and containing extreme pressure additives. It is extremely suitable for the lubrication of bearings operating under both radial and axial loads e.g. transport screws.

- Good oil film formation at low temperatures down to -30 °C (-22 °F)
- Good pumpability at low temperature
- Good corrosion protection
- Good water resistance

Typical applications:

- Windmills
- Screw conveyors
- Centralised lubrication systems
- Spherical roller thrust bearing applications



Bearing operating conditions

Temperature	Low to Medium
Speed	Low to Medium
Load	High
Vertical shaft	—
Fast outer ring rotation	—
Oscillating movements	+
Severe vibrations	—
Shock load or frequent start-up	+
Low noise	—
Low friction	—
Rust inhibiting properties	+

+ = Recommended ○ = Suitable — = Not suitable

Available pack sizes LGWM 1

420 ml cartridge	5 kg can
	180 kg drum

LGWA 2

SKF high load, extreme pressure, wide temperature range bearing grease

LGWA 2 is premium quality mineral oil based lithium complex grease with extreme pressure (EP) performance. LGWA 2 has such properties that it can be recommended for a wide range of industrial and automotive applications.

- Excellent lubrication at peak temperatures up to 220 °C (428 °F) for short periods
- Protection of wheel bearings operating under severe conditions
- Effective lubrication in wet conditions
- Good water and corrosion resistance
- Excellent lubrication under high loads and low speeds

Typical applications:

- Wheel bearings in cars, trailers and trucks
- Washing machines
- Electric motors



Bearing operating conditions

Temperature	Medium to High
Speed	Low to Medium
Load	High
Vertical shaft	○
Fast outer ring rotation	○
Oscillating movements	○
Severe vibrations	○
Shock load or frequent start-up	+
Low noise	—
Low friction	○
Rust inhibiting properties	+

+ = Recommended ○ = Suitable — = Not suitable

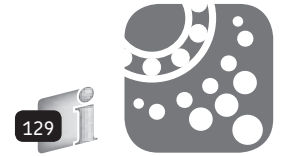
Available pack sizes LGWA 2

SYSTEM 24	35 g tube	200 g tube
420 ml cartridge	1 kg can	5 kg can
	50 kg drum	180 kg drum

LGHB 2

SKF high load, high temperature, high viscosity bearing grease

LGHB 2 is a premium quality, high viscosity, mineral oil based grease using the latest complex calcium, sulphonate soap technology. This grease contains no additives and the extreme pressure characteristics are created within the soap structure.



- Excellent anti-oxidation and anti-corrosion properties
- Good EP performance in applications running at high loads

Typical applications:

- Steel on steel plain bearings
- Pulp and paper making machines
- Asphalt vibrating screens
- Continuous casting machines
- Sealed spherical roller bearings operating up to 150 °C (302 °F)
- Withstands peak temperatures of 200 °C (392 °F)
- Work roll bearings in steel industry
- Mast rollers of fork lift trucks

Bearing operating conditions

Temperature	Medium to High
Speed	Very Low to Medium
Load	High to Very High
Vertical shaft	○
Fast outer ring rotation	+
Oscillating movements	+
Severe vibrations	+
Shock load or frequent start-up	+
Low noise	—
Low friction	—
Rust inhibiting properties	+
+ = Recommended ○ = Suitable — = Not suitable	

Available pack sizes LGHB 2

SYSTEM 24		
420 ml cartridge		5 kg can
18 kg can	50 kg drum	180 kg drum

LGHP 2

SKF high performance, high temperature bearing grease

LGHP 2 is premium quality mineral oil based grease, using a modern Polyurea (di-urea) thickener. It is suitable for ball (and roller) bearings required to run extremely quiet, operating at a wide temperature range from -40 °C (-40 °F) up to 150 °C (302 °F), at medium to high speeds.



- Extremely long life at high temperature
- Wide temperature range
- Excellent corrosion protection
- High thermal stability
- Good low temperature start-up performance
- Compatibility with common Polyurea greases
- Compatibility with lithium complex thickened greases
- Low noise characteristics
- Very good mechanical stability

Typical applications:

- Electric motors: Small, medium and large
- Industrial fans, including high speed fans
- Water pumps
- Rolling bearings in textile, paper processing and drying machines
- Applications with high speed ball bearings operating at medium and high temperatures
- Clutch release bearings
- Vertical shaft applications
- Kiln trucks and rollers
- Vibrating applications

Bearing operating conditions

Temperature	Medium to High
Speed	Medium to High
Load	Low to Medium
Vertical shaft	+
Fast outer ring rotation	—
Oscillating movements	—
Severe vibrations	+
Shock load or frequent start-up	○
Low noise	+
Low friction	○
+ = Recommended ○ = Suitable — = Not suitable	

Available pack sizes LGHP 2

SYSTEM 24		
420 ml cartridge	1 kg can	5 kg can
18 kg can	50 kg drum	



Re-lubrication

LGET 2

SKF extreme temperature, extreme condition bearing grease

LGET 2 is premium quality, synthetic fluorinated oil based grease using a PTFE thickener. It has excellent lubrication properties at extremely high temperatures exceeding 200 °C (392 °F) up to 260 °C (500 °F).

- Long life in aggressive environments such as very reactive environments or areas with a presence of high purity gaseous oxygen, hexane and so on
- Excellent oxidation resistance
- Good corrosion resistance
- Excellent water and steam resistance

Typical applications:

- Bakery equipment (ovens)
- Kiln truck wheels
- Load rollers in copying machines
- Wafer baking machines
- Textile dryers
- Film stretching tenders
- Electric motors running at extreme temperatures
- Emergency / hot fans
- Vacuum pumps



Bearing operating conditions

Temperature	Very High
Speed	Low to Medium
Load	High to Very High
Vertical shaft	○
Fast outer ring rotation	+
Oscillating movements	+
Severe vibrations	○
Shock load or frequent start-up	○
Low noise	—
Low friction	—
Rust inhibiting properties	○
+ = Recommended ○ = Suitable — = Not suitable	

Available pack sizes LGET 2

50 g (25 ml) syringe 1 kg can

Important note: Fluorinated greases in general are very costly, however the SKF LGET 2 is competitively priced. Given that LGET 2 is more expensive than other SKF greases, it is therefore recommended to use it only for applications where other SKF greases would not provide the required performance.

Single-point automatic lubricators LAGD series

More reliable and easier to use SYSTEM 24®



Poor lubrication can considerably reduce the service life of the best of bearings. With that in mind, SKF has enhanced the performance of the single-point automatic lubricator:

SYSTEM 24. The lubricator's increased reliability and ease-of-use are a result of the following:

Product enhancements

Increased reliability at high temperatures as a result of:

- Transparent lubricant container made of polyamide reduces gas diffusion
- The larger molecules of the driving inert gas are less sensitive to higher temperatures

Easy installation:

- The tool-free activation and time setting slot allows easy and accurate adjustment of lubrication flow

Intrinsically safe approval for Zone 0:

- Tested and approved for use in areas where an explosive atmosphere caused by gases, vapours and dust, is continuously present as well as for use in mines and underground areas.

Easy and quick fitting:

- Facilitated by easy-grip top cover

Easy-to-remove end-cap:

- Covers the lubricant outlet; sharp tools are no longer required to open the outlet



SKF single point automatic lubricators LAGD 125 and LAGD 60

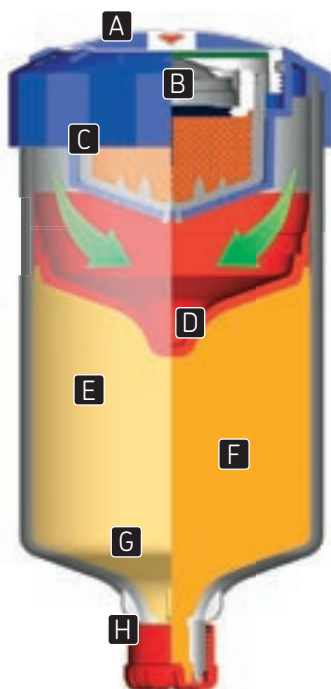
While enhancing the reliability and ease-of-use, SYSTEM 24 still offers you the features and benefits you have to come to expect from SKF automatic lubricators.

Existing features

- Flexible time setting period ranging between 1 and 12 months
- High reliability and dispense rate accuracy allow fit and forget procedure until predetermined replacement date
- Transparent lubricant container allows visual inspection of dispense rate
- High capacity, compact size permits installation in restricted areas
- Redesigned non-return valve of the oil-filled SYSTEM 24 is less sensitive to vibration, minimising the risk of leakage
- Available filled with various high quality SKF greases and oils, which are especially developed for a wide range of bearing applications
- Dispense rate setting is a simple part of the installation process
- Hermetic sealing prevents ingress of dirt or foreign matter
- Allows low grease dispense rate
- Available in two sizes: 125 ml (LAGD 125) and 60 ml (LAGD 60)
- Can be temporarily deactivated
- Wide range of accessories is available
- II 1GD EEx ia IIC T6 T85°C
I M1 EEx ia I
EC Type Examination Certificate Kema04ATEX1275X



SYSTEM 24® is a registered trademark of SKF USA Inc.



A Tool-free activation and time setting slot

Allows easy installation and accurate adjustment of lubrication flow

B Gas cell

Produces a large molecule inert gas, which is less temperature sensitive

C Easy-grip top-cover

Facilitates easy and quick fitting

D Special piston shape

Helps ensure optimum emptying of lubricator

E Transparent container made of polyamide

Reduces gas diffusion and increases reliability

F High quality SKF bearing grease

SKF bearing greases, especially developed for bearing applications

G One-piece lubricant container with an integrated base

Offers better vibration resistance

H Removable lubricant outlet end-cap

No sharp tool is required to open the outlet



Re-lubrication

Ordering details

Designation	Description
LAGD 125/WA2	125 ml (4,25 fl oz. US) unit filled with LGWA 2 grease
LAGD 60/WA2	60 ml (2,03 fl oz. US) unit filled with LGWA 2 grease
LAGD 125/EM2	125 ml (4,25 fl oz. US) unit filled with LGEM 2 grease
LAGD 125/FP2	125 ml (4,25 fl oz. US) unit filled with LGFP 2 grease
LAGD 125/GB2	125 ml (4,25 fl oz. US) unit filled with LGGB 2 grease
LAGD 125/HB2	125 ml (4,25 fl oz. US) unit filled with LGHB 2 grease
LAGD 125/HP2	125 ml (4,25 fl oz. US) unit filled with LGHP 2 grease
LAGD 125/HFP15*	125 ml (4,25 fl oz. US) unit filled with food processing oil (viscosity ISO 150)
LAGD 125/HHT26*	125 ml (4,25 fl oz. US) unit filled with synthetic high temperature chain oil (viscosity ISO 265)
LAGD 125/HMT68*	125 ml (4,25 fl oz. US) unit filled with mineral EP type chain oil (viscosity ISO 68)
LAGD 60/HMT68*	60 ml (2,03 fl oz. US) unit filled with mineral EP type chain oil (viscosity ISO 68)
LAGD 125/U*	125 ml (4,25 fl oz. US) empty unit suitable for oil filling

* Includes non-return valve

Accessories ordering details

Designation	Description	Designation	Description
LAPA 45	Angle connection 45°	LAPM 2	Y-connection
LAPA 90	Angle connection 90°	LAPM 4	Manifold (4 to 1)
LAPB 3x4E1*	Brush 30 × 40 mm	LAPN 1/8	Nipple G 1/4 – G 1/8
LAPB 3x7E1*	Brush 30 × 60 mm	LAPN 1/2	Nipple G 1/4 – G 1/2
LAPB 3x10E1*	Brush 30 × 100 mm	LAPN1/4	Nipple G 1/4 – G 1/4
LAPB 5-16E*	Elevator brush, 5 – 16 mm gap	LAPN 3/8	Nipple G 1/4 – G 3/8
LAPB D2*	Brush round Ø 20 mm	LAPN 6	Nipple G 1/4 – M6
LAPC 50	Clamp	LAPN 8	Nipple G 1/4 – M8 × 1,25
LAPE 35	Extension 35 mm	LAPN 8x1	Nipple G 1/4 – M8 × 1
LAPE 50	Extension 50 mm	LAPN 10	Nipple G 1/4 – M10 × 1,5
LAPT 1000	Flexible tube, 1 000 mm long, 8 × 6 mm	LAPN 10x1	Nipple G 1/4 – M10 × 1
LAPF F1/4	Tube connection female G 1/4	LAPN 12	Nipple G 1/4 – M12
LAPF M1/4	Tube connection male G 1/4	LAPN 12x1.5	Nipple G 1/4 – M12 × 1,5
LAPF M1/8	Tube connection male G 1/8	LAPP 2E	Protection base
LAPF M3/8	Tube connection male G 3/8	LAPP 3E	Protection cover
LAPG 1/4	Grease nipple G 1/4	LAPV 1/4	Non return valve G 1/4
		LAPV 1/8	Non return valve G 1/8

* Suitable for use with oil filled SYSTEM 24 units only



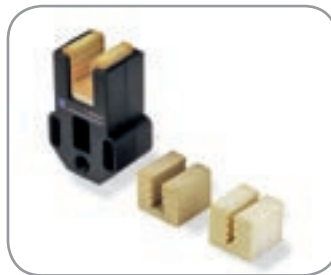
SKF Chain oil range

Extending chain life

SKF chain oils come in three convenient sizes to suit the needs of most chain applications in industrial environments. The chain oils, medium temperature, high temperature, and food compatible (NSF H1), are available in 400 ml (13,52 oz.) aerosol cans, 5 litre (1,32 gallon) cans, and as an oil fill for the SYSTEM 24 single point automatic lubricator.



NEW



Ordering details

Designation	Description
LHFP 150/0.4	400 ml (13,52 oz.) aerosol can
LHFP 150/5	5 litre (1,32 gallon) can
LAGD 125/HFP15*	125 ml (4,25 fl oz. US) SYSTEM 24 unit filled with food processing oil (viscosity ISO 150)
LHHT 265/0.4	400 ml (13,52 oz.) aerosol can
LHHT 265/5	5 litre (1,32 gallon) can
LAGD 125/HHT26*	125 ml (4,25 fl oz. US) SYSTEM 24 unit filled with synthetic high temperature chain oil (viscosity ISO 265)
LHMT 68/0.4	400 ml (13,52 oz.) aerosol can
LHMT 68/5	5 litre (1,32 gallon) can
LAGD 125/HMT68*	125 ml (4,25 fl oz. US) SYSTEM 24 unit filled with mineral EP type chain oil (viscosity ISO 68)
LAGD 60/HMT68*	60 ml (2,03 fl oz. US) SYSTEM 24 unit filled with mineral EP type chain oil (viscosity ISO 68)

* Includes non-return valve