

SKF

SKF Bearing Grease selection guide



This grease selection guide is offered to you by SKF.
It is very easy to use, complete and very practical.

- 1 Basic selection table**
- 2 Advanced selection table**
- 3 Technical specifications**



Basic selection table

(Limited application information)

Basic bearing grease selection		
Generally use	LGMT 2	All-purpose
Unless:		
Expected bearing temperature continuously > 100 °C/212 °F	LGHP 2	High temperature
Low ambient -50 °C/-58 °F, expected bearing temperature < 50 °C/122 °F	LGLT 2	Low temperature
Shock loads, heavy loads, vibrations	LGEP 2	High load
Food processing industry	LGFP 2	Food processing
Green biodegradable, demands for low toxicity	LGGB 2	Green biodegradable

- Note:**
- For areas with relatively high ambient temperatures, use LGMT 3 instead of LGMT 2
 - For special operating conditions, refer to the range of special SKF bearing greases
 - For bearing temperatures > 200 °C / 392 °F (up to 260 °C / 500 °F) refer to LGET 2



Grease packer LAGP 400



Grease meter LAGM 1000







1077600



Grease gun LAGH 400

Advanced selection table




(More detailed application information)

Bearing operating parameters			
Temperature 		Load 	
M = Medium	-30 to 110 °C/-22 to 230 °F	VH = Very high	C/P < 2
H = High	-20 to 130 °C/-4 to 266 °F	H = High	C/P = 2-5
L = Low	-50 to 80 °C/-58 to 176 °F	M = Medium	C/P = 5-10
		L = Low	C/P > 10
Speed for ball bearings 		Speed for roller bearings 	
EH = Extremely High	n.dm over 700.000	H = High	n.dm over 150.000
VH = Very High	n.dm up to 700.000	M = Medium	n.dm up to 150.000
H = High	n.dm up to 500.000	L = Low	n.dm up to 75.000
M = Medium	n.dm up to 300.000	VL = Very Low	n.dm below 30.000

n.dm = rotational speed, r/min x 0,5 (D+d), mm




Quick bearing grease selection guide

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Bearing working conditions				
			Main additional properties	Grease recommended
M	M	M	General purpose for small/medium-sized bearings	LGMT 2
M	M	M	General purpose for larger bearings (or high ambient temp.)	LGMT 3
M	M	M	Food compatible	LGFP 2
M	M	M+H	Biodegradable, low toxicity, EP/anti-wear	LGGB 2
M	L	H	EP/anti-wear, good corrosion inhibition	LGEP 2
M	L	H	EP/anti-wear, good low temperature performance, anti-brinelling	LGWM 1
M	L	H	EP/anti-wear, severe vibrations, anti-brinelling, water resistance	LGHB 2
M	VL	VH	Excellent EP/anti-wear (solid additives), high viscosity	LGEM 2

Quick bearing grease selection guide

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Bearing working conditions				
			Main additional properties	Grease recommended
M	VL	VH	Excellent EP/anti-wear (solid additives), extremely high viscosity	LGEV 2
M	VL	VH	Extremely good EP, anti-brinelling, water resistance	LGHB 2
L	EH	L	Quiet running, very low start-up temperature	LGLT 2
L+M	EH	M	EP/anti-wear, very low start-up temperature	LGLC 2
M+H	M+H	M	Excellent corrosion protection, water resistance, long grease life	LGHP 2
H	L+M	H	Extremely good EP, anti-brinelling, water resistance	LGHB 2
H	L+M	M+H	EP/anti-wear, leakage resistant, water resistance	LGWA 2

Note: - For bearing temperatures > 200 °C / 392 °F (up to 260 °C / 500 °F) refer to LGET 2

Grease filler pumps, manual and air-driven grease pumps



LAGF 18 / LAGF 50



LAGG 18M



LAGG 18AE



LAGG 50AE



LAGG 180AE



LAGT 180

Technical specifications

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	Description	Temperature range	Thickener/ base oil	Base oil viscosity (*1)	Available pack sizes
Standard bearing greases					
LGMT 2	All purpose industrial and automotive	-30/120 °C -22/250 °F	Lithium soap/ mineral oil	110	35, 200 g, 420 ml, 1, 5, 18, 50, 180 kg
LGMT 3	All purpose industrial and automotive	-30/120 °C -22/250 °F	Lithium soap/ mineral oil	120-130	420 ml, 1, 5, 18, 50, 180 kg
LGEP 2	Extreme pressure	-20/110 °C -4/230 °F	Lithium soap/ mineral oil	200	420 ml, 1, 5, 18, 50, 180 kg
LGLT 2	Low temperature	-55/110 °C -65/230 °F	Lithium soap/ di-ester oil	15	25, 200 g, 1, 180 kg
LGHP 2	High performance polyurea grease	-40/150 °C -40/300 °F	Di-urea/ mineral oil	96	420 ml, 1, 5, 18, 50, 180 kg, SYSTEM 24
LGFP 2	Food compatible	-20/110 °C -4/230 °F	Aluminium complex/ medical white oil	130	420 ml, 1, 18, 180 kg, SYSTEM 24

(*1) mm^2/s at 40 °C/104 °F = cSt.

Technical specifications

	Description	Temperature range	Thickener/ base oil	Base oil viscosity (*1)	Available pack sizes
Special bearing greases					
LGGB 2	Green biodegradable low toxicity	-40/120 °C (*2) -40/250 °F	Lithium-calcium soap/synthetic ester oil	110	420 ml, 5, 18, 180 kg, SYSTEM 24
LGLC 2	Low temperature high speed	-40/120 °C -40/250 °F	Calcium complex soap/ester- mineral oil	24	200 g, 1, 180 kg
LGWA 2	Wide temperature (*3)	-30/140 °C -22/284 °F	Lithium complex soap/mineral oil	185	35, 200 g, 420 ml, 1, 5, 50, 180 kg SYSTEM 24
LGHB 2	EP high viscosity high temperature (*4)	-20/150 °C -4/300 °F	Complex calcium sulphonate/ mineral oil	400-450	420 ml, 5, 18, 50, 180 kg, SYSTEM 24

(*1) mm^2/s at 40 °C/104 °F = cSt.

(*2) For continuous operation: max. temperatures 90 °C/194 °F

(*3) LGWA 2 can withstand peak temperatures of 220 °C/428 °F

(*4) LGHB 2 can withstand peak temperatures of 200 °C/392 °F

Technical specifications

	Description	Temperature range	Thickener/ base oil	Base oil viscosity (*1)	Available pack sizes
Special bearing greases					
LGET 2	Extreme temperature	-40/260 °C -40/500 °F	PTFE/Synthetic (fluorinated polyether)	400	50 g (25 ml) syringe
LGEM 2	High viscosity plus solid lubricants	-20/120 °C -4/250 °F	Lithium soap/ mineral oil	500	420 ml, 5, 18, 180 kg SYSTEM 24
LGEV 2	Extremely high viscosity with solid lubricants	-10/120 °C 14/250 °F	Lithium-calcium soap/mineral oil	1.020	35 g, 420 ml, 5, 18, 50, 180 kg
LGWM 1	Extreme pressure low temperature	-30/110 °C -22/230 °F	Lithium soap/ mineral oil	200	420 ml, 5, 50, 180 kg

(*1) mm^2/s at $40\text{ }^\circ\text{C}/104\text{ }^\circ\text{F} = \text{cSt}$.

Automatic lubricators



SYSTEM MultiPoint



SYSTEM 24

In line with our policy of continuous development of our products we reserve the right to alter any part of the above specification without prior notice.

SKF Maintenance Products

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