

SKF bearing grease selection chart

Bearing working conditions	Temp	Speed	Load	Vertical shaft	Fast outer ring rotation	Oscillating movements	Severe vibrations	Shock load or frequent start-up	Low noise	Low friction	Rust inhibiting properties	Description	Temperature range (*1)		Thickener / base oil	Base oil viscosity (*2)
													LTL	HTPL		
LGMT 2	M	M	L to M	○	—	—	+	—	—	○	+	General purpose industrial and automotive	-30 °C -22 °F	120 °C 250 °F	Lithium soap / mineral oil	110
LGMT 3	M	M	L to M	+	○	—	+	—	—	○	○	General purpose industrial and automotive	-30 °C -22 °F	120 °C 250 °F	Lithium soap / mineral oil	120
LGEP 2	M	L to M	H	○	—	○	+	+	—	—	+	Extreme pressure	-20 °C -4 °F	110 °C 230 °F	Lithium soap / mineral oil	200
LGFP 2	M	M	L to M	○	—	—	—	—	—	○	+	Food compatible	-20 °C -4 °F	110 °C 230 °F	Aluminium complex / medical white oil	130
LGEM 2	M	VL	H to VH	○	—	+	+	+	—	—	+	High viscosity plus solid lubricants	-20 °C -4 °F	120 °C 250 °F	Lithium soap / mineral oil	500
LGEV 2	M	VL	H to VH	○	—	+	+	+	—	—	+	Extremely high viscosity with solid lubricants	-10 °C 14 °F	120 °C 250 °F	Lithium-calcium soap / mineral oil	1 020
LGLT 2	L to M	M to EH	L	○	—	—	—	○	+	+	○	Low temperature, extremely high speed	-50 °C -58 °F	110 °C 230 °F	Lithium soap / PAO oil	18
LGGB 2	L to M	L to M	M to H	○	—	+	+	+	—	○	○	Green biodegradable, low toxicity	-40 °C -40 °F	90 °C (*3) 194 °F	Lithium-calcium soap / synthetic ester oil	110
LGWM 1	L to M	L to M	H	—	—	+	—	+	—	—	+	Extreme pressure, low temperature	-30 °C -22 °F	110 °C 230 °F	Lithium soap / mineral oil	200
LGWM 2	L to M	L to M	M to H	○	○	+	+	+	—	—	+	High load, wide temperature	-40 °C -40 °F	110 °C 230 °F	Complex calcium sulphonate / synthetic (PAO)/mineral oil	80
LGWA 2	M to H	L to M	L to H	○	○	○	○	+	—	○	+	Wide temperature (*4), extreme pressure	-30 °C -22 °F	140 °C 284 °F	Lithium complex soap / mineral oil	185
LGHB 2	M to H	VL to M	H to VH	○	+	+	+	+	—	—	+	EP high viscosity, high temperature (*5)	-20 °C -4 °F	150 °C 302 °F	Complex calcium sulphonate / mineral oil	400
LGHP 2	M to H	M to H	L to M	+	—	—	○	○	+	○	+	High performance polyurea grease	-40 °C -40 °F	150 °C 302 °F	Di-urea / mineral oil	96
LGET 2	VH	L to M	H to VH	○	+	+	○	○	—	—	○	Extreme temperature	-40 °C -40 °F	260 °C 500 °F	PTFE / synthetic (fluorinated polyether)	400

(*1) LTL = Low-temperature limit
HTPL = High-temperature performance limit
(*2) mm²/s at 40 °C / 104 °F = cSt.

(*3) LGGB 2 can withstand peak temperatures of 120 °C / 250 °F
(*4) LGWA 2 can withstand peak temperatures of 220 °C / 428 °F

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

+ = Recommended

○ = Suitable

— = Not suitable

Basic bearing grease selection

Generally use if: Speed = M, Temperature = M and Load = M	LGMT 2	General purpose
Unless:		
Expected bearing temperature continuously > 100 °C / 212 °F	LGHP 2	High temperature
Expected bearing temperature continuously > 150 °C / 302 °F, demands for radiation resistance	LGEM 2	Extremely high temperature
Low ambient -50 °C / -58 °F, expected bearing temperature < 50 °C / 122 °F	LGLT 2	Low temperature
Shock loads, heavy loads, frequent start-up / shut-down	LGEP 2	High load
Food processing industry	LGFP 2	Food processing
"Green" biodegradable, demands for low toxicity	LGGB 2	"Green" biodegradable
<i>Note:</i> – For areas with relatively high ambient temperatures, use LGMT 3 instead of LGMT 2 – For special operating conditions, refer to the SKF bearing grease selection chart		

Bearing operating parameters		
Temperature		
L = Low	<50 °C / 122 °F	
M = Medium	50 to 100 °C / 122 to 230 °F	
H = High	>100 °C / 212 °F	
EH = Extremely high	> 150 °C / 302 °F	
Speed for ball bearings		
EH = Extremely High	n.dm over 700 000	
VH = Very High	n.dm up to 700 000	
H = High	n.dm up to 500 000	
M = Medium	n.dm up to 300 000	
L = Low	n.dm below 100 000	
Speed for roller bearings		
	SRB/TRB/CARB	CRB
H = High	n.dm over 210 000	n.dm over 270 000
M = Medium	n.dm up to 210 000	n.dm up to 270 000
L = Low	n.dm up to 75 000	n.dm up to 75 000
VL = Very Low	n.dm below 30 000	n.dm below 30 000
Load		
VH = Very high	C/P < 2	
H = High	C/P - 4	
M = Medium	C/P - 8	
L = Low	C/P 15	

Available pack sizes

	LGMT 2	LGMT 3	LGEP 2	LGFP 2	LGEM 2	LGEV 2	LGLT 2	LGGB 2	LGWM 1	LGWM 2	LGWA 2	LGHB 2	LGHP 2	LGEM 2	LGEM 2
SKF SYSTEM 24				•	•			•		•	•	•	•		
35 g tube	•					•					•				
200 g tube	•						•				•				
420 ml cartridge	•	•	•	•	•	•		•	•	•	•	•	•		
1 kg can	•	•	•	•			•				•		•	•	
5 kg can	•	•	•		•	•		•	•	•	•	•	•		
18 kg can	•	•	•	•	•	•		•		•		•	•		
25 kg can							•								
50 kg drum	•	•	•			•			•	•	•	•	•		
180 kg drum	•	•	•	•	•	•	•	•	•	•	•	•	•		
50 g (25 ml) syringe															•

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 International standardisation of the SKF grease testing methods and equipment
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SKF Maintenance Products

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