

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)			Base oil viscosity (*2)
													LTL	HTPL	Thickener / base oil	
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
LGFB 2	M	M	M to H	○	—	○	+	+	—	—	+	Food compatible, high load	−20 °C −4 °F	120 °C 250 °F	Aluminium complex / PAO and ester	266
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
LGFL 1	L to M	M to EH	L	—	—	—	○	—	+	+	+	Food compatible, low temperature	−45 °C −49 °F	120 °C 250 °F	Aluminium complex / PAO and ester	30
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
LGWA 2	M to H	L to M	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	LGET 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
Note: – 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	LGFB 2	LGEM 2	LGEV 2	LGLT 2	LGFL 1	LGGB 2	LGWM 1	LGWA 2	LGHB 2	LGHP 2	LGET 2
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															•



Bearing Greases

Highest quality grease for bearing lubrication

Guarantee of consistent quality as each product is manufactured at one location to the same formulation

A complete product programme for general and specific bearing lubrication requirements

International standardisation of the SKF grease testing methods and equipment

Worldwide product availability through the SKF dealer network



www.mapro.skf.com
www.skf.com/mount

SKF Maintenance Products

Publication MP3401E · 2006/10 © SKF 2006
© SKF is a registered trademark of the SKF Group

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of use of the information contained herein.

