

**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/-85 °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

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.

Quick bearing grease selection guide

Temp	Speed	Load	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
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, EP/anti-wear	LGLT 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
EH	LM	H	Extreme temperature	LGET 2

Bearing operating parameters

Temperature		
M	= Medium	-30 to 110 °C/-22 to 230 °F
H	= High	-20 to 130 °C/-4 to 266 °F
L	= Low	-50 to 80 °C/-58 to 176 °F
Speed for ball bearings		
EH	= Extremely High	n.dn over 700 000
VH	= Very High	n.dn up to 700 000
H	= High	n.dn up to 500 000
M	= Medium	n.dn up to 300 000
Load		
VH	= Very high	C/P < 2
H	= High	C/P = 2-5
M	= Medium	C/P = 5-10
L	= Low	C/P > 10
Speed for roller bearings		
H	= High	n.dn over 150 000
M	= Medium	n.dn up to 150 000
L	= Low	n.dn up to 75 000
VL	= Very Low	n.dn below 30 000

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

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Bearing working conditions	High temperature above 120 °C	Low temperature	Very high speed	Very low speed and/or oscillating movements	Low load and friction	Severe load and friction	Heavy load and friction	Rust protection properties	Water resistance
Standard bearing greases									
LGMT 2			o	-	+	+	o	+	+
LGMT 3			o	-	o	+	o	o	+
LGEPE 2			o	o	-	+	+	+	+
LGLT 2		+	+	-	+	o	o	+	+
LGHP 2	+	o	+	-	o	+	o	+	+
LGFP 2			o	-	o	o		+	+
Special bearing greases									
LGGB 2			o	o	o	o	+	+	o
LGWA 2	+		o	o	o	+	+	+	+
LGHB 2	+		o	+	-	+	+	+	+
LGET 2	+	+	-	+	-	o	+	o	o
LGEM 2			-	+	-	+	+	+	+
LGEV 2			-	-	+	-	+	+	+
LGWM 1		+	o	o	o	-	+	+	+
+ = Recommended					o = Suitable			- = Not suitable	
Where no symbol is indicated the relevant grease may be used - however it is not recommended. For further information please contact SKF.									

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Technical specifications					
	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 tube, 420 ml cartridge, 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 cartridge, 1, 5, 18, 50, 180 kg
LGEPE 2	Extreme pressure	-20/110 °C -4/230 °F	Lithium soap/mineral oil	200	420 ml cartridge, 1, 5, 18, 50, 180 kg
LGLT 2	Low temperature, extremely high speed	-50/110 °C -58/230 °F	Lithium soap/PAO oil	25	200 g tube, 1, 25, 180 kg
LGHP 2	High performance polyurea grease	-40/150 °C -40/300 °F	Di-urea/mineral oil	96	420 ml cartridge, 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 cartridge, 1, 18, 180 kg, SYSTEM 24
Special bearing greases					
LGGB 2	Green biodegradable low toxicity	-40/120 °C -40/250 °F (*2)	Lithium-calcium soap/synthetic ester oil	110	420 ml cartridge, 5, 18, 180 kg, SYSTEM 24
LGWA 2	Wide temperature (*3)	-30/140 °C -22/284 °F	Lithium complex soap/mineral oil	185	35, 200 g tube, 420 ml cartridge, 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 cartridge, 5, 18, 50, 180 kg, SYSTEM 24
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 cartridge, 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 tube, 420 ml cartridge, 5, 18, 50, 180 kg
LGWM 1	Extreme pressure low temperature	-30/10 °C -22/230 °F	Lithium soap/mineral oil	200	420 ml cartridge, 5, 50, 180 kg

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

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

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

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

SKF bearing grease compatibility chart

	LGMT 2 LGMT 3	LGEП 2 LGWM 1	LGLT 2	LGHP 2	LGWA 2 LGHQ 3	LGFP 2	LGGB 2	LGLC 2	LGHB 2	LGET 2	LGEM 2	LGEV 2
LGMT 2		+	+	+	+	-	+	-	+	-	+	+
LGMT 3												
LGEП 2 LGWM 1	+		+	+	+	-	+	-	+	-	+	+
LGLT 2	+	+		+	+	-	+	o	+	-	+	+
LGHP 2	+	+	+		+	-	+	-	+	-	+	+
LGWA 2 LGHQ 3	+	+	+	+		+	+	+	+	-	+	+
LGFP 2	-	-	-	-	+		-	-	-	-	-	-
LGGB 2	+	+	+	+	+	-		-	+	-	+	+
LGLC 2	-	-	o	-	+	-	-		+	-	-	-
LGHB 2	+	+	+	+	+	-	+	+		-	+	+
LGET 2	-	-	-	-	-	-	-	-	-		-	-
LGEM 2	+	+	+	+	+	-	+	-	+	-		+
LGEV 2	+	+	+	+	+	-	+	-	+	-	-	+

+= Compatible

-= Incompatible

o= Limited *

* Flush out as much old grease as possible

Note: this chart only explains which greases are compatible. Do not confuse this with comparable in terms of performance

