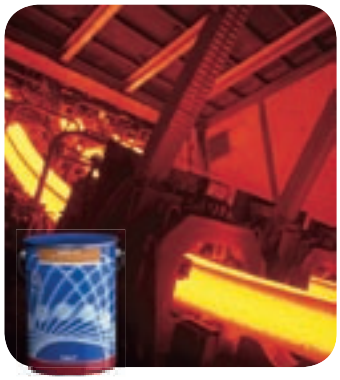
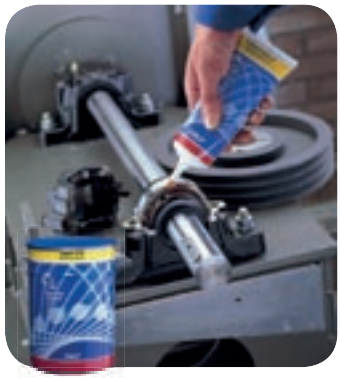
Basic bearing grease selection

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	


Re–lubrication

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
LGMT 2	M	M	L to M	O	–	–	+	–	–	O
LGMT 3	M	M	L to M	+	O	–	+	–	–	O
LGEP 2	M	L to M	H	O	–	O	+	+	–	–
LGFP 2	M	M	L to M	O	–	–	–	–	–	O
LGEM 2	M	VL	H to VH	O	–	+	+	+	–	–
LGEV 2	M	VL	H to VH	O	–	+	+	+	–	–
LGLT 2	L to M	M to EH	L	O	–	–	–	O	+	+
LGGB 2	L to M	L to M	M to H	O	–	+	+	+	–	O
LGWM 1	L to M	L to M	H	–	–	+	–	+	–	–
LGWA 2	M to H	L to M	H	O	O	O	O	+	–	O
LGHB 2	M to H	VL to M	H to VH	O	+	+	+	+	–	–
LGHP 2	M to H	M to H	L to M	+	–	–	+	O	+	O
LGET 2	VH	L to M	H to VH	O	+	+	O	O	–	–

(*1) Grease Performance Factor
(*2) for information on safe operating temperature please refer to pages 50 – 51
(*3) mm^2/s at 40 °C / 104 °F = cSt.
(*4) LGGB 2 can withstand peak temperatures of 120 °C / 250 °F
(*5) LGWA 2 can withstand peak temperatures of 220 °C / 428 °F
(*6) LGHB 2 can withstand peak temperatures of 200 °C / 392 °F
(*7) Contact SKF for re–lubrication intervals

Rust inhibiting properties	GPF (*1)	Description	Temperature range (*2) LTL	HTPL	Thickener / base oil	Base oil viscosity (*3)
+	1	General purpose industrial and automotive	–30 °C –22 °F	120 °C 250 °F	Lithium soap/ mineral oil	110
o	1	General purpose industrial and automotive	–30 °C –22 °F	120 °C 250 °F	Lithium soap/ mineral oil	120
+	1	Extreme pressure	–20 °C –4 °F	110 °C 230 °F	Lithium soap/ mineral oil	200
+	0,7	Food compatible	–20 °C –4 °F	110 °C 230 °F	Aluminium complex/medical white oil	130
+	1	High viscosity plus solid lubricants	–20 °C –4 °F	120 °C 250 °F	Lithium soap/ mineral oil	500
+	1	Extremely high viscosity with solid lubricants	–10 °C –14 °F	120 °C 250 °F	Lithium–calcium soap/ mineral oil	1 020
o	2	Low temperature, extremely high speed	–50 °C –58 °F	110 °C 230 °F	Lithium soap / PAO oil	18
o	0,7	Green biodegradable, low toxicity	–40 °C –40 °F	90 °C (*4) 194 °F	Lithium–calcium soap / synthetic ester oil	110
+	1	Extreme pressure, low temperature	–30 °C –22 °F	110 °C 230 °F	Lithium soap / mineral oil	200
+	1,5	Wide temperature (*5), extreme pressure	–30 °C –22 °F	140 °C 284 °F	Lithium complex soap / mineral oil	185
+	1,7	EP high viscosity, high temperature (*6)	–20 °C –4 °F	150 °C 302 °F	Complex calcium sulphonate / mineral oil	400
+	2	High performance polyurea grease	–40 °C –40 °F	150 °C 302 °F	Di–urea / mineral oil	96
o	(*7)	Extreme temperature	–40 °C –40 °F	260 °C 500 °F	PTFE / synthetic (fluorinated polyether)	400

\+ = Recommended o = Suitable – = Not suitable