

SKF bearing grease selection chart

Bearing operating conditions	Temp	Speed	Load	Vertical shock	Fast water ingress	Polluting environment	Severe vibration	Shock load or frequent starting	Corrosion	Low friction	Low starting torque	Description	Temperature range (°C)		Minimum base oil	Min oil density (kg/m³)
													LN	UN		
LEMT 2	M	M	L to M	○	-	-	+	-	-	○	+	General purpose industrial and automotive	-20 to 120	150 to 200	Lithium soap / mineral oil	830
LEMT 3	M	M	L to M	+	○	-	+	-	-	○	○	General purpose industrial and automotive	-20 to 120	150 to 200	Lithium soap / mineral oil	830
LEMP 2	M	L to M	M	○	-	○	+	+	-	-	+	Extreme pressure	-20 to 120	150 to 200	Lithium soap / mineral oil	830
LEMP 3	M	M	L to M	○	-	-	-	-	-	○	+	Food compatible	-20 to 120	150 to 200	Maximum length / mineral oil	830
LESH 2	M	VL	M to VH	○	-	+	+	+	-	-	+	High viscosity grease with additives	-20 to 120	150 to 200	Lithium soap / mineral oil	830
LESH 3	M	VL	M to VH	○	-	+	+	+	-	-	+	Extremely high viscosity grease with additives	20 to 120	150 to 200	Lithium complex soap / mineral oil	1 000
LELT 2	L to M	M to VL	L	○	-	-	-	○	+	+	○	Low temperature, extremely high speed	-20 to 120	150 to 200	Lithium soap / PAO oil	810
LESB 2	L to M	L to M	M to H	○	-	+	+	+	-	○	○	Steel indistinguishable, low toxicity	-20 to 120	150 to 200	Lithium complex soap / synthetic ester oil	830
LEMP 4	L to M	L to M	M	-	-	+	-	+	-	-	+	Extreme pressure, low temperature	-20 to 120	150 to 200	Lithium soap / mineral oil	830
LESH 4	L to M	L to M	M to H	○	○	+	+	+	-	-	+	High load, ultra-temperature	-20 to 120	150 to 200	Complex lithium soap / synthetic (polyethylene glycol)	810
LESH 5	M to H	L to M	L to H	○	○	○	○	+	-	○	+	Wide temperature (°C), extreme pressure	-20 to 120	150 to 200	Lithium complex soap / mineral oil	830
LESH 6	M to H	VL to M	M to VH	○	+	+	+	+	-	-	+	M² high viscosity, high temperature (°C)	-20 to 120	150 to 200	Complex lithium soap / mineral oil	830
LEMP 7	M to H	M to H	L to M	+	-	-	-	○	+	○	+	High performance, extreme pressure	-20 to 120	150 to 200	Mineral / mineral oil	810
LEST 2	M	L to M	M to VH	○	+	+	○	○	-	-	○	Extreme temperature	-20 to 120	150 to 200	EPNL / synthetic mineral/vegetable	830

LN: 20 / UN: low temperature limit
UN: high temperature performance limit
M: min oil density 830 kg/m³

○: 2000 L per additional seal temperature of 200 °C / 392 °F
○: 1000 L per additional seal temperature of 200 °C / 392 °F

○: 2000 L per additional seal temperature of 200 °C / 392 °F
○: 1000 L per additional seal temperature of 200 °C / 392 °F

+ Recommended ○ Not advised

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Basic bearing grease selection

General purpose (Speed: M, Temperature: M and/or VL)	LEMT 2	General purpose
High temperature	LEMP 3	High temperature
Extremely high temperature	LESH 3	Extremely high temperature
Low temperature	LELT 2	Low temperature
High load	LEMP 2	High load
Food compatible	LEMP 3	Food compatible
Steel indistinguishable, low toxicity	LESB 2	Steel indistinguishable

Note: - For steel with additional high oxidation temperatures, use LEMT 3 instead of LEMT 2
- For general operating conditions, refer to the SKF bearing grease selection chart

Bearing operating parameters

Temperature	LN: 20 °C / 68 °F UN: 120 °C / 248 °F M: 150 °C / 302 °F VL: 200 °C / 392 °F	
Speed for ball bearings	M: 1: 1500 rpm M: 2: 1000 rpm M: 3: 750 rpm M: 4: 500 rpm L: 1: 300 rpm	
Speed for roller bearings	M: 1: 1000 rpm M: 2: 750 rpm M: 3: 500 rpm M: 4: 300 rpm L: 1: 150 rpm	1000
Load	M: 1: Very high M: 2: High M: 3: Medium L: 1: Low	2000

Available pack sizes

	LEMT 2	LEMT 3	LEMP 2	LEMP 3	LESH 2	LESH 3	LELT 2	LESB 2	LEMP 4	LESH 4	LESH 5	LESH 6	LEMP 7	LEST 2
1 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
15 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
50 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
60 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
70 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
80 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
90 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
100 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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