SKF bearing grease selection chart

Grease	Description	Application examples	Temperature LTTL[1] °C (°F)	Temperature HTPL[1] °C (°F)	Speed Range[2]	Load Range[2]	Base oil	Thickener	NLGI grade	Base oil viscosity 40 °C mm²/s	Base oil viscosity 100 °C mm²/s	Vertical shaft	Oscillating movements	Severe vibrations	Rust protection	Water resistance	Frequent start-up	
LGMT 2	General purpose industrial and automotive	Wheel bearings, conveyors, fans, small electric motors	–30 (–20)	120 (250)	M	L to M	Min	Li	2	110	10	●	●	+	+	+	●	Wide range of applications
LGMT 3	General purpose industrial and automotive	Vertical shaft, outer ring rotation, wheel bearings	–30 (–20)	120 (250)	M	L to M	Min	Li	3	125	12	++	●	++	+	+	●	
LGEP 2	Extreme pressure	Heavy industrial applications, vibrating screens	–20 (–5)	110 (230)	M	H	Min	Li	2	200	16	●	●	+	+	+	++	
LGNL 2	General purpose, high load	Heavy duty, conveyors, vibrating machinery	–30 (–20)	110 (230)	M	L to M	H	Min	Ca Anh	2	220	14	●	●	+	+	++	++
LGNL 3	General purpose, high load	Vertical shaft, vibrating screens	–30 (–20)	130 (265)	M	M	H	Min	Ca_x	3	105	10	++	●	++	+	++	+
LGWA 2	Extreme pressure, wide temperature range	Wheel bearings, fans, electric motors	–30 (–20)	140 (285)[3]	M to H	L to M	L to H	Min	Lix	2	250	17	●	–	+	+	+	+
LGGB 2	Biodegradable, low toxicity	Agriculture, construction, water treatment	–40 (–40)	90 (195)	L to M	L to M	M to H	Ester	Li-Ca	2	110	18	●	+	–	●	+	+
LGLT 2	Low temperature, extremely high speed	Machine tool spindles, printing cylinders	–50 (–60)	110 (230)	L to M	M to EH	L	PAO	Li	2	17	3.8	●	–	– –	–	+	●
LGWM 1	Extreme pressure, low temperature	Wind turbine main shaft, heavy duty applications	–30 (–20)	110 (230)	L to M	L to M	H	Min	Li	1	200	16	– –	+	–	+	+	++
LGEP 1	Extreme pressure, high viscosity	Wind turbine main shaft, heavy duty applications	–20 (–5)	120 (250)	M	VL to M	H to VH	Min	Li-Ca	1	400	25	– –	+	–	+	+	++
LGWM 2	High load, wide temperature	Wind turbine main shaft, heavy duty off road or marine applications	–40 (–40)	110 (230)	L to M	L to M	L to H	PAO/Min	CaSx	1-2	80	10	●	++	+	++	++	++
LGEM 2	High viscosity with solid lubricants	Jaw crushers, construction machinery, vibrating machinery	–20 (–5)	120 (250)	M	L to M	H to VH	Min	Li-Ca	2	500	32	+	●	+	+	+	++
LGEV 2	Extremely high viscosity with solid lubricants	Rotary kilns, high pressure grinding rolls, trunnnions, rocker arms	–10 (15)	120 (250)	M	VL to L	H to VH	Min	Li-Ca	2	1300	49	●	●	+	+	+	++
LGHB 2	High load, high temperature	Classifiers, work rolls and continuous casters, vibrating screens	–20 (–5)	150 (300)	M to H	VL to M	L to VH	Min	CaSx	2	425	28	●	++	+	++	++	++
LGHC 2	High load, water resistant, high temperature	Classifiers, work rolls and continuous casters, vibrating screens	–20 (–5)	140 (285)	M to H	VL to M	L to VH	Min	CaSx	2	450	31	●	++	+	++	++	++
LGHP 2	High performance, high temperature	Electric motors, high temperature fans	–40 (–40)	150 (300)	M to H	M to H	L to M	Min	PU	2-3	96	10.5	+	–	– –	++	++	●
LGHQ 2	Electric motor grease	Electric motors, fans	–30 (–20)	160 (320)	M to H	M to H	L to M	Min	PU	2	110	12	●	–	– –	+	++	+
LGET 2	Extreme temperature, extreme condition	Ovens, textile dryers, vacuum pumps	–40 (–40)	260 (500)	VH	L to M	H to VH	PFPE	PTFE	2	400	38	●	–	●	–	+	●
LGFG 2	General purpose, food grade	Conveyors, wrapping machines, bottling machines	–30 (–20)	140 (285)	M	L to H	L to H	Min	CaSx	2	150	16	●	++	+	+	++	+
LGFQ 2	High load, food grade	Pellet presses, mixers, centralized lubrication systems	–40 (–40)	130 (265)	L to H	VL to M	L to VH	PAO/Min	CaSx	1-2	320	30	●	++	●	+	++	++
LGED 2	High temperature, food grade	Baking, vacuum pumps	–30 (–20)	240 (465)	VH	L to M	H to VH	PFPE	PTFE	2	460	42	●	–	●	–	+	●

Low temperatures

High loads

High temperatures

Food grade

[1] LTTL = low temperature torque limit, HTPL = high temperature performance limit; for details, refer to *The SKF traffic light concept for grease temperature performance* on page Selecting a suitable grease

[2] Refer to Temperature, speed, and load ranges for grease selection on page Selecting a suitable grease

[3] LGWA 2 can withstand peak temperatures of 220 °C (430 °F)

++ = Very suitable
\+ = Recommended
● = Suitable
– = Not recommended
– – = Not suitable