

Technical specifications for SKF greases

		LGMT 2	LGMT 3	LGEP 2	LGWA 2	LGGB 2	LGFP 2	LG FQ 2	LG BB 2	LG LT 2	LG WM 1	LG WM 2	LG EM 2	LG EV 2	LG HB 2	LG HP 2	LG ED 2	LG ET 2
DIN 51825 code		K2K-30	K3K-30	KP2G-20	KP2N-30	KPE 2K-40	K2G-20	KP1/2N-40	KP2G-40	K2G-50	KP1G-30	KP2G-40	KPF2K-20	KPF2K-10	KP2N-20	K2N-40	KFK2U-30	KFK2U-40
NLGI consistency class		2	3	2	2	2	2	1-2	2	2	1	1-2	2	2	2	2-3	2	2
Thickener		Lithium	Lithium	Lithium	Lithium complex	Lithium/calcium	Aluminium complex	Complex calcium sulphionate	Lithium complex	Lithium	Lithium	Complex calcium sulphionate	Lithium	Lithium/calcium	Complex calcium sulphionate	Di-urea	PTFE	PTFE
Colour		Red brown	Amber	Light brown	Amber	Off white	Transparent	Brown	Yellow	Beige	Brown	Yellow	Black	Black	Brown	Blue	Off white	Off white
Base oil type		Mineral	Mineral	Mineral	Mineral	Synthetic (Ester)	Medical white oil	Synthetic (PAO)	Synthetic (PAO)	Synthetic (PAO)	Mineral	Synthetic (PAO)/Mineral	Mineral	Mineral	Mineral	Mineral	Synthetic (fluorinated polyether)	Synthetic (fluorinated polyether)
Operating temperature range	°C °F	-30 to +120 (-20 to +250)	-30 to +120 (-20 to +250)	-20 to +110 (-5 to +230)	-30 to +140 (-20 to +285)	-40 to +90 (-40 to +195)	-20 to +110 (-5 to +230)	-40 to +140 (-40 to +285)	-40 to +120 (-40 to +250)	-50 to +110 (-60 to +230)	-30 to +110 (-20 to +230)	-40 to +110 (-40 to +230)	-20 to +120 (-5 to +250)	-10 to +120 (15 to 250)	-20 to +150 (-5 to +300)	-40 to +150 (-40 to +300)	-30 to +240 (-22 to +464)	-40 to +260 (-40 to +500)
Dropping point DIN ISO 2176	°C °F	>180 (>355)	>180 (>355)	>180 (>355)	>250 (>480)	>170 (>340)	>250 (>480)	>300 (>570)	>200 (390)	>180 (>355)	>170 (>340)	>300 (>570)	>180 (>355)	>180 (>355)	>220 (>430)	>240 (>465)	>300 (>570)	>300 (>570)
Base oil viscosity 40 °C (105 °F) 100 °C (210 °F)	mm ² /s mm ² /s	110 11	125 12	200 16	185 15	110 13	150 15,3	320 30	68	18 4,5	200 16	80 8,6	500 32	1020 58	425 26,5	96 10,5	460 42	400 38
Penetration DIN ISO 2137 60 strokes 100 000 strokes	10 ⁻¹ mm 10 ⁻¹ mm	265-295 +50 max. (325 max.)	220-250 280 max.	265-295 +50 max. (325 max.)	265-295 +50 max. (325 max.)	265-295 +50 max. (325 max.)	265-295 +30 max.	280-310 +30 max.	265-295 +50 max.	265-295 +50 max.	310-340 +50 max.	280-310 +30 max.	265-295 325 max.	265-295 325 max.	265-295 -20 to +50 (325 max.)	245-275 365 max.	265-295 271 ¹⁾	265-295 -
Mechanical stability Roll stability, 50 h at 80 °C (175 °F) V2F test	10 ⁻¹ mm	+50 max. "M"	295 max. "M"	+50 max. "M"	+50 max. change "M"	+70 max. (350 max.)		-20 to +30 max.	+50 max.			+50 max.	345 max. "M"	+50 max. "M"	-20 to +50 "M"	365 max.		±30 max. 130 °C (265 °F)
Corrosion protection Emcor: - standard ISO 11007 - water washout test - salt water test (100% seawater)		0-0 0-0 0-1 ¹⁾	0-0 0-0	0-0 0-0 1-1 ¹⁾	0-0 0-0 ¹⁾	0-0	0-0 ¹⁾	0-0	0-0	0-1	0-0 0-0	0-0 0-0 0-0 ¹⁾	0-0 0-0	0-0 0-0 ¹⁾ 0-0 ¹⁾	0-0 0-0 0-0 ¹⁾	0-0 0-0 0-0	0-0 ¹⁾	1-1 max.
Water resistance DIN 51 807/1, 3 h at 90 °C (195 °F)		1 max.	2 max.	1 max.	1 max.	0 max.	1 max.	1 max.	1 max.	1 max.	1 max.	1 max.	1 max.	1 max.	1 max.	1 max.	1 max.	0 max.
Oil separation DIN 51 817, 7 days at 40 °C (105 °F), static	%	1-6	1-3	2-5	1-5	0,8-3	1-5	3 max.	4 max, 2,5 ¹⁾	<4	8-13	3 max.	1-5	1-5	1-3, 60 °C (140 °F)	1-5 ¹⁾		13 max. 30 h 200 °C (390 °F)
Lubrication ability R2F, running test B at 120 °C (250 °F) R2F, cold chamber test, -30 °C (-20 °F), +20 °C (+70 °F)		Pass	Pass	Pass	Pass 100 °C (210 °F)	Pass 100 °C (210 °F) ¹⁾		Pass				Pass, 140 °C (285 °F) Pass, Pass	Pass, 100 °C (210 °F)		Pass, 140 °C (285 °F)	Pass		
Copper corrosion DIN 51 811		2 max. 110 °C (230 °F)	2 max. 130 °C (265 °F)	2 max. 110 °C (230 °F)	2 max. 100 °C (210 °F)		1 max. 120 °C (250 °F)	1b max. 100 °C (210 °F)	1 max. 120 °C (250 °F)	1 max. 100 °C (210 °F)	2 max. 90 °C (>195 °F)	2 max. 100 °C (210 °F)	2 max. 100 °C (210 °F)	1 max. 100 °C (210 °F)	2 max. 150 °C (300 °F)	1 max. 150 °C (300 °F)	1 max. 100 °C (210 °F) ¹⁾	1 max. 150 °C (300 °F)
Rolling bearing grease life ROF test L ₅₀ life at 10 000 r/min	h		1 000 min., 130 °C (265 °F)			>300, 120 °C (250 °F)	1 000, 110 °C (230 °F) ¹⁾			>1 000, 20 000 r/min 100 °C (210 °F)		1 824 ¹⁾ , 110 °C (230 °F)		>1 000, 130 °C (265 °F)	1 000 min. 150 °C (300 °F)	>700 at 220 °C (430 °F)	>1 000 ¹⁾ at 220 °C (428 °F)	
EP performance Wear scar DIN 51350/5, 1 400 N 4-ball test, welding load DIN 51350/4	mm N			1,4 max. 2 800 min.	1,6 max. 2 600 min.	1,8 max. 2 600 min.	1 100 min.	1 max. >4 000	0,4 ¹⁾ 5 500 ¹⁾	2 000 min.	1,8 max. 3 200 min. ¹⁾	1,5 max. ¹⁾ 4 000 min. ¹⁾	1,4 max. 3 000 min.	1,2 max. 3 000 min.	0,86 ¹⁾ 4 000 min.		8 000 min.	8 000 min.
Fretting corrosion ASTM D4170 FAFNIR test at +25 °C (75 °F)	mg			5,7 ¹⁾				0,8 ¹⁾	0-1 ¹⁾		5,5 ¹⁾	5,2/1,1 at -20 °C (-5 °F) ¹⁾		0 ¹⁾	7 ¹⁾			
Low temperature torque IP186, starting torque IP186, running torque	Nmm ¹⁾ Nmm ¹⁾	98, -30 °C (-20 °F) 58, -30 °C (-20 °F)	145, -30 °C (-20 °F) 95, -30 °C (-20 °F)	70, -20 °C (-5 °F) 45, -20 °C (-5 °F)	40, -30 °C (-20 °F) 30, -30 °C (-20 °F)		137, -30 °C (-20 °F) 51, -30 °C (-20 °F)	369, -40 °C (-40 °F) 223, -40 °C (-40 °F)	313, -40 °C (-40 °F) 75, -40 °C (-40 °F)	32, -50 °C (-60 °F) 21, -50 °C (-60 °F)	178, 0 °C (32 °F) 103, 0 °C (32 °F)	249, -40 °C (-40 °F) 184, -40 °C (-40 °F)	160, -20 °C (-5 °F) 98, -20 °C (-5 °F)	96, -10 °C (14 °F) 66, -10 °C (14 °F)	250, -20 °C (-5 °F) 133, -20 °C (-5 °F)	1 000, -40 °C (-40 °F) 280, -40 °C (-40 °F)		

Special requirements

High loads

Wide applications greases

Low temperatures

High temperatures

¹⁾ Typical value