Technical specifications for SKF greases

	LGMT 2	LGMT 3	LGEP 2	LGWA 2	LGGB 2	LGBB 2	LGLT 2	LGWM 1	LGWM 2	LGEM 2	LGEV 2	LGHB 2	LGHC 2	LGHP 2	LGHQ 2	LGET 2
DIN 51825 code	K2K-30	K3K-30	KP2G-20	KP2N-30	KPE 2K-40	KP2G-40	K2G-50	KP1G-30	KP2G-40	KPF2K-20	KPF2K-10	KP2N-20	KP2N-20	K2N-40	K2P-30	KFK2U-40
NLGI consistency class	2	3	2	2	2	2	2	1	1–2	2	2	2	2	2–3	2	2
Thickener	Lithium	Lithium	Lithium	Lithium complex	Lithium/ calcium	Lithium complex	Lithium	Lithium	Calcium sulphonate complex	Lithium/calcium	Lithium/ calcium	Calcium sulphonate complex	Complex calcium sulphonate	Polyurea	Polyurea	PTFE
Colour	Red brown	Amber	Light brown	Amber	Off white	Yellow	Beige	Brown	Yellow	Black	Black	Brown	Brown	Blue	Blue	Off white
Base oil type	Mineral	Mineral	Mineral	Mineral	Synthetic (Ester)	Synthetic (PAO)	Synthetic (PAO)	Mineral	Synthetic (PAO)/ Mineral	Mineral	Mineral	Mineral	Mineral	Mineral	Mineral	PFPE
Operating temperature range	–30 to +120 °C *(–20 to +250 °F)*	–30 to +120 °C *(–20 to +250 °F)*	–20 to +110 °C *(–5 to +230 °F)*	–30 to +140 °C *(–20 to +285 °F)*	–40 to +90 °C *(–40 to +195 °F)*	–40 to +120 °C *(–40 to +250 °F)*	–50 to +110 °C *(–60 to +230 °F)*	–30 to +110 °C *(–20 to +230 °F)*	–40 to +110 °C *(–40 to +230 °F)*	–20 to +120 °C *(–5 to +250 °F)*	–10 to +120 °C *(15 to 250 °F)*	–20 to +150 °C *(–5 to +300 °F)*	–20 to +140 °C *(–5 to +284 °F)*	–40 to +150 °C *(–40 to +300 °F)*	–30 to +160 °C *(–2 to +320 °F)*	–40 to +260 °C *(–40 to +500 °F)*
Dropping point DIN ISO 2176	>180 °C *(>355 °F)*	>180 °C *(>355 °F)*	>180 °C *(>355 °F)*	>250 °C *(>480 °F)*	>170 °C *(>340 °F)*	>200 °C *(390 °F)*	>180 °C *(>355 °F)*	>170 °C *(>340 °F)*	>300 °C *(>570 °F)*	>180 °C *(>355 °F)*	>180 °C *(>355 °F)*	>220 °C *(>430 °F)*	>300 °C *(>570 °F)*	>240 °C *(>465 °F)*	>260 °C *(>500 °F)*	>300 °C *(>570 °F)*
Base oil viscosity																
40 °C, mm^2/s	110	125	200	185	110	68	18	200	80	500	1 020	425	450	96	110	400
100 °C, mm^2/s	11	12	16	15	13		4,5	16	8,6	32	58	26,5	31	10,5	12	38
Penetration DIN ISO 2137																
60 strokes, 10^{-1} mm	265–295	220–250	265–295	265–295	265–295	265–295	265–295	310–340	280–310	265–295	265–295	265–295	265–295	245–275	265–295	265–295
100 000 strokes, 10^{-1} mm	+50 max. (325 max.)	280 max.	+50 max. (325 max.)	+50 max. (325 max.)	+50 max. (325 max.)	+50 max.	+50 max.	+50 max.	+30 max	325 max.	325 max.	–20 to +50 (325 max.)	+30 max.	365 max.	385 max.	–
Mechanical stability																
Roll stability, 50 hrs at 80 °C, 10^{-1} mm	+50 max.	295 max.	+50 max.	+50 max. change	+70 max. (350 max.)	+50 max.			+50 max.	345 max.	+50 max.	–20 to +50 change	–20 to +30 change	365 max.	385 max.	±30 max. 130 °C *(265 °F)*
V2F test	'M'	'M'	'M'	'M'						'M'	'M'	'M'				
Corrosion protection																
Emcor: – standard ISO 11007	0–0	0–0	0–0	0–0	0–0	0–0	0–1	0–0	0–0	0–0	0–0	0–0	0–0	0–0	0–0	1–1 max.
– water washout test	0–0	0–0	0–0	0–0 [1]				0–0	0–0	0–0 [1]	0–0 [1]	0–0	0–0 [1]	0–0	0–1	
– salt water test (100% seawater)	0–1 [1]		1–1 [1]			0–1 [1]			0–0 [1]		0–0 [1]	0–0 [1]	0–1	0–0		
Water resistance																
DIN 51 807/1, 3 hrs at 90 °C	1 max.	1 max.[1]	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.	0 max.
Oil separation																
DIN 51 817, 7 days at 40 °C, static, %	1–6	1–3	2–5	1–5	0,8–3	4 max, 2.5 [1]	<4	8–13	3 max.	1–5	1–5	1–3, 60 °C *(140 °F)*	2 [1]	1–5 [1]	1.3	13 max. 30 hrs 200 °C *(390 °F)*
Lubrication ability																
R2F, running test B at 120 °C	Pass	Pass	Pass	Pass, 100 °C *(210 °F)*	Pass, 100 °C *(210 °F)* [1]				Pass, 140 °C *(285 °F)*	Pass, 100 °C *(210 °F)*		Pass, 140 °C *(285 °F)*	Pass, 140 °C *(285 °F)*	Pass	Pass	
R2F, cold chamber test, –30 °C, +20 °C									Pass, 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)*	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)*	1b max.	1 max. 150 °C *(300 °F)*	1b max. 100 °C *(210 °F)*	1 max. 150 °C *(300 °F)*
Rolling bearing grease life																
R0F test		1 000 min., 130 °C *(265 °F)*			>300, 120 °C *(250 °F)*		>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)*	1 000 min. 160 °C *(302 °F)*	>1 000 [1] at 220 °C *(428 °F)*
L_{50} life at 10 000 r/min., hrs																
EP performance																
Wear scar DIN 51350/5, 1 400 N, mm			1,4 max.	1,6 max.	1,8 max.	0,4 [1]		1,8 max.	1,5 max. [1]	1,2 max.	1,2 max.	0,86 [1]	1,2 [1]		1 max	
4–ball test, welding load DIN 51350/4, N			2 800 min.	2 600 min.	2 600 min.	5 500 [1]	2 000 min.	3 200 min. [1]	4 000 min. [1]	3 400 min.	3 000 min.	4 000 min.	4 000 min. [1]		2600 min	8 000 min.
Fretting corrosion																
ASTM D4170 FAFNIR test at +25 °C mg			5,7 [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, m Nm [1]	98, –30 °C *(–20 °F)*	145, –30 °C *(–20 °F)*	70, –20 °C *(–5 °F)*	40, –30 °C *(–20 °F)*		313, –40 °C *(–40 °F)*	32, –50 °C *(–60 °F)*	178, –30 °C *(–20 °F)*	249, –40 °C *(–40 °F)*	160, –20 °C *(–5 °F)*	96, –10 °C *(15 °F)*	250, –20 °C *(–5 °F)*	224, –20 °C (–5 °F)	1 000, –40 °C *(–40 °F)*	500, –30 °C *(–20 °F)*	
IP186, running torque, m Nm [1]	58, –30 °C *(–20 °F)*	95, –30 °C *(–20 °F)*	45, –20 °C *(–5 °F)*	30, –30 °C *(–20 °F)*		75, –40 °C *(–40 °F)*	21, –50 °C *(–60 °F)*	103, –30 °C *(–20 °F)*	184, –40 °C *(–40 °F)*	98, –20 °C *(–5 °F)*	66, –10 °C *(15 °F)*	133, –20 °C *(–5 °F)*	62, –20 °C (–5 °F)	280, –40 °C *(–40 °F)*	70, –30 °C *(–20 °F)*	

Special requirements

High loads

Wide applications greases

Low temperatures

High temperatures

[1] Typical value

[2] ISO 2160, 140 °C *(285 °F)*