

SKF bearing grease selection chart														Temperature range (°C)		Thickener / base oil	Base oil viscosity (cSt)
Bearing working conditions	Temp	Speed	Load	Vertical shaft	Fast water ring rotation	Swirling mechanism	Severe vibration	Shock load or frequent start/stop	Low noise	Low friction	Anti-wear properties	Description	LT <sub>1</sub>	HT <sub>1</sub>			
LGHT 2	M	M	L to M	⊖	—	—	+	—	—	⊖	+	General purpose industrial and automotive	-40 °C -20 °C	120 °C 200 °C	Lithium soap / mineral oil	320	
LGHT 3	M	M	L to M	+	⊖	—	+	—	—	⊖	⊖	General purpose industrial and automotive	-40 °C -20 °C	120 °C 200 °C	Lithium soap / mineral oil	320	
LGSP 2	M	L to M	M	⊖	—	⊖	+	+	—	—	+	Extreme pressure	-40 °C -20 °C	120 °C 200 °C	Lithium soap / mineral oil	320	
LGFP 2	M	M	L to M	⊖	—	—	—	—	—	⊖	+	Food compatible	-40 °C -20 °C	120 °C 200 °C	Neutrium complex / mineral white oil	320	
LGSH 2	M	VL	M to VL	⊖	—	+	+	+	—	—	+	High viscosity grease with additives	-40 °C -20 °C	120 °C 200 °C	Lithium soap / mineral oil	320	
LGHY 2	M	VL	M to VL	⊖	—	+	+	+	—	—	+	Extremely high viscosity with anti-additives	-40 °C -20 °C	120 °C 200 °C	Lithium complex base / mineral oil	320	
LGLT 2	L to M	M to VL	L	⊖	—	—	—	⊖	+	+	⊖	Low temperature, extremely high speed	-40 °C -20 °C	120 °C 200 °C	Lithium soap / PAO oil	32	
LGSB 2	L to M	L to M	M to VL	⊖	—	+	+	+	—	—	⊖	Severe load/shock, low loading	-40 °C -20 °C	90 °C / 170 °C 200 °C	Lithium complex base / synthetic white oil	320	
LGMP 2	L to M	L to M	M	—	—	+	—	+	—	—	+	Extreme pressure, low temperature	-40 °C -20 °C	120 °C 200 °C	Lithium soap / mineral oil	320	
LGSH 3	L to M	L to M	M to VL	⊖	⊖	+	+	+	—	—	+	High load, wide temperature	-40 °C -20 °C	120 °C 200 °C	Complex calcium sulfonate / synthetic (Phosphorus) oil	32	
LGSS 2	M to VL	L to M	L to VL	⊖	⊖	⊖	⊖	+	—	—	⊖	Wide temperature (°C), extreme pressure	-40 °C -20 °C	140 °C 200 °C	Lithium complex soap / mineral oil	320	
LGSP 3	M to VL	VL to M	M to VL	⊖	+	+	+	+	—	—	+	M <sup>1</sup> high viscosity high temperature (°C)	-40 °C -20 °C	180 °C 200 °C	Complex calcium sulfonate / mineral oil	400	
LGMP 3	M to VL	M to VL	L to M	+	—	—	⊖	⊖	+	⊖	+	High performance grease grease	-40 °C -20 °C	180 °C 200 °C	Si base / mineral oil	100	
LGST 2	VL	L to M	M to VL	⊖	+	+	⊖	⊖	—	—	⊖	Extreme temperature	-40 °C -20 °C	180 °C 200 °C	PTM / Synthetic (fluorinated compound)	400	

(°C) LT<sub>1</sub> : Low temperature limit  
(°C) HT<sub>1</sub> : High temperature performance limit  
(cSt) : viscosity at 100 °C / 150 °C / 210 °C

(°C) LGHT 2 : Low ambient temp. temperatures at -40 °C / 120 °C

(°C) LGHT 3 : Low ambient temp. temperatures at -20 °C / 120 °C

(°C) LGSP 2 : Low ambient temp. temperatures at -40 °C / 120 °C

(°C) LGFP 2 : Low ambient temp. temperatures at -40 °C / 120 °C

(°C) LGSH 2 : Low ambient temp. temperatures at -40 °C / 120 °C

(°C) LGSH 3 : Low ambient temp. temperatures at -40 °C / 120 °C

(°C) LGSS 2 : Low ambient temp. temperatures at -40 °C / 120 °C

(°C) LGSP 3 : Low ambient temp. temperatures at -40 °C / 120 °C

(°C) LGMP 3 : Low ambient temp. temperatures at -40 °C / 120 °C

(°C) LGST 2 : Low ambient temp. temperatures at -40 °C / 120 °C

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LT<sub>1</sub>: LT<sub>1</sub> / Low temperature limit  
HT<sub>1</sub>: HT<sub>1</sub> / High temperature performance limit  
HT<sub>2</sub>: HT<sub>2</sub> / High temperature performance limit

LT<sub>2</sub>: LT<sub>2</sub> / Low temperature limit  
HT<sub>2</sub>: HT<sub>2</sub> / High temperature performance limit  
HT<sub>3</sub>: HT<sub>3</sub> / High temperature performance limit

LT<sub>3</sub>: LT<sub>3</sub> / Low temperature limit  
HT<sub>3</sub>: HT<sub>3</sub> / High temperature performance limit  
HT<sub>4</sub>: HT<sub>4</sub> / High temperature performance limit

⊕ Recommended

⊖ Suitable

— Not suitable

www.skf.com/industrialgreases

## Basic bearing grease selection

General purpose (Speed < M, Temperature < 100 and oil < M)	<b>LGHT 2</b>	General purpose
Extreme pressure (extremely > 200 °C / 350 °F)	<b>LGMP 3</b>	High temperature
Special bearing temperatures (extremely > 200 °C / 350 °F, demands for maximum resistance)	<b>LGST 2</b>	Extremely high temperature
Low viscosity (100 °C / 200 °F, special bearing temperature < 100 °C / 200 °F)	<b>LGLT 2</b>	Low temperature
Shock loads, heavy loads, frequent start/stop / start stops	<b>LGSP 2</b>	High load
Food processing industry	<b>LGFP 2</b>	Food processing
Severe load/shock, demands for low loading	<b>LGSB 2</b>	"Severe" load/shock

Note: <sup>1</sup> For areas with extremely high ambient temperatures, use LGST 3 instead of LGST 2.  
<sup>2</sup> For special operating conditions, refer to the SKF bearing grease selection chart.

### Bearing operating parameters

Temperature		
LT <sub>1</sub> / Low	-40 °C / -20 °C °F	
HT <sub>1</sub> / Medium	120 °C / 200 °F	
HT <sub>2</sub> / High	180 °C / 350 °F	
HT <sub>3</sub> / Extremely high	200 °C / 350 °F	
Speed for ball bearings		
SH <sub>1</sub> / Extremely high	1,000 rpm / 3,000 rpm	
SH <sub>2</sub> / Very high	1,000 rpm / 3,000 rpm	
SH <sub>3</sub> / High	1,000 rpm / 3,000 rpm	
SH <sub>4</sub> / Medium	1,000 rpm / 3,000 rpm	
SH <sub>5</sub> / Low	1,000 rpm / 3,000 rpm	
Speed for roller bearings		
SH <sub>1</sub> / High	1,000 rpm / 3,000 rpm	
SH <sub>2</sub> / Medium	1,000 rpm / 3,000 rpm	
SH <sub>3</sub> / Low	1,000 rpm / 3,000 rpm	
SH <sub>4</sub> / Very low	1,000 rpm / 3,000 rpm	
Load		
SH <sub>1</sub> / Very high	SH <sub>1</sub> > 3	
SH <sub>2</sub> / High	SH <sub>2</sub> > 3	
SH <sub>3</sub> / Medium	SH <sub>3</sub> > 3	
SH <sub>4</sub> / Low	SH <sub>4</sub> > 3	

## Available pack sizes

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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# Grease Selection Guide

**AN Whitehead**



## **Grease Selection Guide:**

Precision Bearing Grease Selection Guide, 2006 The study was initiated to develop a precision bearing grease selection guide As a pan of this study forty lubricating greases used in precision bearings including instrument bearings was evaluated in a comprehensive series of laboratory tests in order that their properties can be compared and to identify potential lubricating greases for the replacement of unavailable greases The duration of this study was three years including laboratory testing and preparation times This study was accomplished in a joint effort between TARDEC and NRL and the ATM F 34 Tribology Subcommittee TARDEC and NRL performed all routine tasks necessary to support the study with additional guidance and review was done by the ASTM F 34 Tribology Subcommittee Lubrication and Reliability Handbook Michael J NEALE, 2001-01-05 This handbook helps engineers in industry with the operation and maintenance of machinery It provides the information that these engineers need in a form that is instantly accessible and easy to read The manufacturers of machinery give guidelines on the operation lubrication and maintenance required for their particular equipment There are however many different machines in an industrial plant or service organisation often supplied by many different manufacturers and there is a need to select as many similar lubricants as possible and to use related machine techniques This book bridges the gap which exists between the available data on the various machines by providing overall guidance on how to co ordinate the recommendations of the various equipment makers The book is structured in a number of sections that will make it easier to use and to bring together related topics so that when a reader is focusing on a particular problem they can also refer to related material that is also likely to be of interest THE handbook for an industrial audience consisting of plant engineers and maintenance managers It describes the essential theory and practice relating to matters of lubrication and reliability Unique layout and presentation of information makes this one of the best practical reference books available The Tribology Handbook Michael J Neale, 1995-12-15 The renowned reference work is a practical guide to the selection and design of the components of machines and to their lubrication It has been completely revised for this second edition by leading experts in the area Essential Guide to Metals and Manufacturing Krishan Katyal, 2019-04-30 This book is intended for new owners engineers technicians purchasing agents chief operating officers finance managers quality control managers sales managers or other employees who want to learn and grow in metal manufacturing business The book covers the following 1 Basic metals their selection major producers and suppliers websites 2 Manufacturing processes such as forgings castings steel fabrication sheet metal fabrication and stampings and their equipment suppliers websites 3 Machining and finishing processes and equipment suppliers websites 4 Automation equipment information and websites of their suppliers 5 Information about engineering drawings and quality control 6 Lists of sources of trade magazines technical books that will provide more information on each subject discussed in the book **Facilities Engineering Handbook** United States. National Aeronautics and Space Administration, 1974 **Illustrated Guide to the International Plumbing**

**& Fuel Gas Codes** Howard C. Massey, 2002-07 Packed with plumbing isometrics and helpful illustrations this guide makes clear the code requirements for installing materials for plumbing and gas systems Includes code tables for pipe sizing and fixture units and code requirements for just about all areas of plumbing from water supply and vents to sanitary drainage systems Covers the principles and terminology of the code how the various systems work and are regulated and code compliance issues you ll likely encounter on the job **Handbook of Lubrication and Tribology** George E.

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*Centrifugal Pumps* Robert X. Perez,2008-09-22 We work in an industry where economic success is heavily dependent on the

collective performance of our processing equipment and their operators Without highly trained and confident operators we can never hope to realize the full potential of our complex processes Formal and informal training must be provided regularly if continuous process and reliability gains are to be expected There are no shortcuts to operational excellence One training topic essential to every operators education is that of centrifugal pumping technology The ever present centrifugal pump is one of the workhorses of the process world tirelessly moving fluids ranging from the innocuous to the toxic and flammable from one stage of the process to the next We would be hard pressed to find a processing unit inside our complexes without a few of these in service Their sheer numbers and variety can make their mastery a challenge This book was specifically written for process operators who regularly deal with centrifugal pumps addressing principally those variables and factors under their control while limiting design theory and mathematics to a minimum The following topics and content are covered

- 1 Importance of equipment reliability and what role operators play in this mission
- 2 Centrifugal pump operating characteristics
- 3 Mechanical seals and their related seal flush plans
- 4 What operators should know about electric motors
- 5 Lubrication basics
- 6 Troubleshooting basics
- 7 How to start a pump reliability program

By the end of the book the reader should possess a clear understanding of how to operate and monitor their pumps Three handy references are also contained in the book to answer questions as they arise in the field

- 1 Operators Guide to API Flush Plans
- 2 Illustrated Glossary of Centrifugal Pump Terms
- 3 Glossary of Electric Motor Terms and
- 4 Useful Centrifugal Pump Formulas

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