

Starting working conditions	Temp	Speed	Load	Vertical shift	Fast water ring rotation	Rotating mechanism	Sparse rotation	Shock load or frequent start-up	Low noise	Low vibration	Heat-insulating properties	Description	Temperature range (°C)		Thickness / mm of	Rate of assembly / %
													LUL	HTM		
LEMT-2	W	W	L to W	○	—	—	+	—	—	○	+	General-purpose industrial work automation	-50 °C -10 °C	500 °C 200 °C	Uniform layer / internal oil	500
LEMT-3	W	W	L to W	+	○	—	+	—	—	○	○	General-purpose industrial work automation	-50 °C -10 °C	500 °C 200 °C	Uniform layer / internal oil	500
LEMP-2	W	L to W	W	○	—	○	+	+	—	—	+	Extreme pressure	-50 °C -10 °C	500 °C 200 °C	Uniform layer / internal oil	500
LEPP-2	W	W	L to W	○	—	—	—	—	—	○	+	Fast completion	-50 °C -10 °C	500 °C 200 °C	Maximum completion / machine within oil	500
LESH-2	W	VL	W to VL	○	—	+	+	+	—	—	+	High viscosity ultra-thin lubricants	-50 °C -10 °C	500 °C 200 °C	Uniform layer / internal oil	500
LEHY-3	W	VL	W to VL	○	—	+	+	+	—	—	+	Extremely high viscosity with ultra-lubricants	-50 °C -10 °C	500 °C 200 °C	Uniform lubrication layer / internal oil	5000
LELT-2	L to W	W to VL	L	○	—	—	—	○	+	+	○	Low temperature, extremely high speed	-50 °C -10 °C	500 °C 200 °C	Uniform layer / 1000 oil	50
LEOH-3	L to W	L to W	W to W	○	—	+	+	+	—	○	○	Lower biodegradability, low toxicity	-50 °C -10 °C	500 °C 200 °C	Uniform lubrication layer / extremely water oil	500
LEOH-1	L to W	L to W	W	—	—	+	—	+	—	—	+	Extreme pressure, low temperature	-50 °C -10 °C	500 °C 200 °C	Uniform layer / internal oil	500
LEOH-2	L to W	L to W	W to W	○	○	+	+	+	—	—	+	High load, water temperature	-50 °C -10 °C	500 °C 200 °C	Complete uniform lubrication / extremely (biodegradable) oil	50
LEOH-3	W to W	L to W	L to W	○	○	○	○	+	—	○	+	Wide temperature (°C), extreme pressure	-50 °C -10 °C	500 °C 200 °C	Uniform complete layer / internal oil	500
LEOH-2	W to W	VL to W	W to W	○	+	+	+	+	—	—	+	W / high viscosity, high temperature (°C)	-50 °C -10 °C	500 °C 200 °C	Complete uniform lubrication / internal oil	500
LEMP-3	W to W	W to W	L to W	+	—	—	○	○	+	○	+	High performance extreme pressure	-50 °C -10 °C	500 °C 200 °C	W / water / internal oil	50
LEST-2	W	L to W	W to W	○	+	+	○	○	—	—	○	Extreme temperature	-50 °C -10 °C	500 °C 200 °C	HTM / (synthetic / fluorinated compound)	500
													(°C) LUL: Low temperature limit (°C) HTM: High temperature performance limit		(°C) LUL: Low oil-saturated work temperature at 1000 °C / 1000 °C (°C) HTM: High oil-saturated work temperature at 1000 °C / 1000 °C	
													(°C) LUL: Low oil-saturated work temperature at 1000 °C / 1000 °C			

### Basic bearing grease selection

Generally used for: Speed > 10, Temperature > 100 and load > 10	LEMT 2	General purpose
General bearing temperatures continuously < 100 °C, < 150 °C	LEMP 2	High temperature
Special bearing temperatures continuously < 100 °C, < 100 °C demands for excellent resistance	LEST 2	Extremely high temperatures
Low addition: 100 °C, < 150 °C, special bearing temperatures < 100 °C, < 150 °C	LEAT 2	Low temperature
Food, food, heavy metal, phosphate, dairy, egg, fish, bones	LEFP 2	High load
Food processing industry	LEFP 2	Food processing
Thrust, shock loads, demands for low bearing	LEDB 2	Thrust bearings, roller

Notes: 1- For steel with extremely high ambient temperatures, use LEMT 2 stainless steel 2  
 2- For special operating conditions, refer to the LEM bearing grease selection chart

Thermoplastic		
ISO 1	UHMW	UHMW PE, 2.33g/cm <sup>3</sup>
ISO 2	HDPE	HD PE, 0.950-0.970 g/cm <sup>3</sup> (20°C)
ISO 3	LDPE	LDPE, 0.920-0.940 g/cm <sup>3</sup>
ISO 4	Low-density High	LDPE, 0.920-0.940 g/cm <sup>3</sup>
Resin for Self-healing		
ISO 1	Self-healing High	LDPE, 0.920-0.940 g/cm <sup>3</sup>
ISO 2	High High	LDPE, 0.920-0.940 g/cm <sup>3</sup>
ISO 3	High	LDPE, 0.920-0.940 g/cm <sup>3</sup>
ISO 4	Low-density	LDPE, 0.920-0.940 g/cm <sup>3</sup>
ISO 5	LDPE	LDPE, 0.920-0.940 g/cm <sup>3</sup>
Resin for Self-healing		
ISO 1	High	LDPE, 0.920-0.940 g/cm <sup>3</sup>
ISO 2	High	LDPE, 0.920-0.940 g/cm <sup>3</sup>
ISO 3	LDPE	LDPE, 0.920-0.940 g/cm <sup>3</sup>
ISO 4	High-Low	LDPE, 0.920-0.940 g/cm <sup>3</sup>
Resin		
ISO 1	High High	LDPE, 0.920-0.940 g/cm <sup>3</sup>
ISO 2	High	LDPE, 0.920-0.940 g/cm <sup>3</sup>
ISO 3	Low-density	LDPE, 0.920-0.940 g/cm <sup>3</sup>
ISO 4	LDPE	LDPE, 0.920-0.940 g/cm <sup>3</sup>

[illegible][illegible]

- Highest quality grease for bearing lubrication
- Consistency of consistent quality on each product is maintained at all locations for the same formulation.
- A complete product programme for general and specific bearing lubrication requirements
- International standardisation of the SKF grease testing methods and equipment
- Worldwide product availability through the SKF dealer network



# Grease Selection Guide

**Shasha Hu**



## **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.

Totten, 2006-04-06 When it was first published some two decades ago the original Handbook of Lubrication and Tribology stood on technology s cutting edge as the first comprehensive reference to assist the emerging science of tribology lubrication Later followed by Volume II Theory and Design and Volume III Monitoring Materials Synthetic Lubricants and Applications it has continued to serve as the cornerstone of every tribology and lubrication science library providing engineers researchers and technicians with the information they need to do their work and pioneer the advancements that have dramatically reshaped this field Now due to those advances the time has come to retool tribology s master text In addition to offering tribologists the facts figures and equations they need everyday Volume I Application and Maintenance Second Edition positions itself at the forefront of the field to address the latest technology related to application and maintenance procedures as well as changes in our understanding of how lubrication principles impact implementation Completely reorganized to aid the reader in identifying chapters and topics of interest every one of the chapters retained from the first edition has either been fully updated and revised or completely rewritten by a peer recognized team of experts who are currently active in a wide variety of industry segments With the addition of several new subject areas it now boasts a total of 37 chapters , Development of ASTM Precision Bearing Grease Guide , 2007 Lubricating grease is one of important operational parameter in the rolling bearing applications Specially the selection of the lubricating grease for the precision bearing applications is very risky due to many other factors unique to any specific precision bearing environments For this reason ASTM F 34 Tribology Subcommittee did a study to develop a Precision Bearing Grease Selection Guide in joint effort with the Department of Defense DoD The purpose of this study was to take a broad spectrum of lubricating greases used in precision bearings including instrument bearings and do a comprehensive series of tests so their properties could be compared This study is also meant to be a design guide for choosing lubricating greases for future precision bearing applications As a part of this study thirty eight lubricating greases currently used in the precision bearings were evaluated in comprehensive series of laboratory tests Vital recommendations were then made based on a collective effort by members of this community who span the spectrum from bearing manufacturers original equipment manufactures OEMs grease manufacturers and suppliers procurement specialists quality assurance representatives QARs from DoD and end users both inside and outside DoD This study has been completed within ASTM F 34 Tribology Subcommittee and published as a new ASTM Standard Guide F 2489 This paper presents the results of the grease testing program grease selection guide and

recommendations      *Tribology Data Handbook* E. Richard Booser,1997-09-26 This handbook is a useful aid for anyone working to achieve more effective lubrication better control of friction and wear and a better understanding of the complex field of tribology Developed in cooperation with the Society of Tribologists and Lubrication Engineers and containing contributions from 74 experts in the field the Tribology Data Handbook covers properties of materials lubricant viscosities and design friction and wear formulae The broad scope of this handbook includes military industrial and automotive lubricant specifications evolving areas of friction and wear performance and design considerations for machine elements computer storage units and metal working and more Important guidelines for the monitoring maintenance and failure assessment of lubrication in automotive industrial and aircraft equipment are also included Current environmental and toxicological concerns complete this one stop reference With hundreds of figures tables and equations as well as essential background information explaining the information presented this is the only source you need to find virtually any tribology information

**The Complete Guide to Blender Graphics** John M. Blain,2019-04-15 Blender™ is a free Open Source 3D Creation Suite supporting the entire modeling and animation pipeline modeling rigging animation simulation rendering compositing and motion tracking The program also includes Video Editing and Grease Pencil 2D Animation The program is free to download and use by anyone for anything The Complete Guide to Blender Graphics Modeling and Animation 5th Edition is a unified manual describing the operation of Blender version 2.80 with its New Improved Interface New Workspaces and New Eevee Render System This book introduces the program's Graphical User Interface and shows how to implement tools for modeling and animating characters and creating scenes with the application of color texture and special lighting effects Key Features The book is designed to lead new users into the world of computer graphics using Blender 2.80 and to be a reference for established Blender artists The book presents instruction in a series of short chapters with visual references and practical examples Instructions are structured in a building block fashion using contents in earlier chapters to explain more complex operations in later chapters      HVAC and Chemical Resistance Handbook for the Engineer and Architect Tom

Arimes,1994 The title is misleading until you check out the contents It is all about HVAC and more This compilation has organized data frequently used by Mechanical Engineers Mechanical Contractors and Plant Facility Engineers The book will end the frustration on a busy day searching for design criteria      An Introduction to Industrial Wastewater Collection and Treatment Engineering J. Paul Guyer, P.E., R.A.,2021-04-25

Introductory technical guidance for civil engineers environmental engineers mechanical engineers construction managers and wastewater treatment plant operators interested in industrial wastewater collection and treatment Here is what is discussed 1 OBJECTIVES 2 INDUSTRIAL POLLUTANTS 3 SOURCE CONTROL AND WASTE REDUCTION 4 WASTEWATER FLOWS AND CHARACTERISTICS 5 WASTEWATER COLLECTION 6 WASTEWATER TREATMENT 7 GUIDELINES FROM ACTUAL EXPERIENCE      *Operator's Guide to*

*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

This book can be used as a self paced self taught short course or as a companion to a live prepared short course for both inexperienced and seasoned operators It can also serve as a handy field guide after completion of the course The ultimate mission of this book is to provide the latest generation of operators a body of knowledge that is relevant complete and practical in an industrial setting for years to come

**Handbook of Engineering Design** Roy D Cullum, 2013-10-22 The Handbook of Engineering Design aims to give accurate information on design from past publications and past papers that are relevant to design The book is divided into two parts Part 1 deals with stages in design as well as the factors to consider such as economics safety and reliability engineering materials its factors of safety and the choice of material stress analysis and the design aspects of production processes Part 2 covers the expansion and contraction of design the preparation of technical specification the design audit and the structure and organization of design offices The text is recommended to engineers who are in need of a guide that is easy to understand and concise

Planning Guide for On-site Greywater Disposal Systems for Recreational and Administrative Sites Dave Erlenbach, 1995      **NHB.** ,1974      Learning Blender Oliver Villar, 2017-04-07 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Master the Newest Blender Techniques for Creating Amazing 3D Characters From Design and Modeling to Video Compositing Now fully updated for Blender 2.78b and beyond Learning Blender Second Edition walks you through every step of creating an outstanding 3D animated character with Blender and then compositing it in a real video using a

professional workflow This edition covers the powerful new selection and modeling tools as well as high efficiency improvements related to other parts of the project such as texture painting shading rigging rendering and compositing Still the only Blender tutorial to take you from preproduction to final result this guide is perfect for both novices and those moving from other software to Blender open source and free software Author Oliver Villar provides full color hands on chapters that cover every aspect of character creation design modeling unwrapping texturing shading rigging animation and rendering He also walks you through integrating your animated character into a real world video using professional camera tracking lighting and compositing techniques The rich companion website [blendtuts.com](http://blendtuts.com) learning blender files will help you quickly master even the most complex techniques with bonus contents like video tutorials By the time you're done you'll be ready to create outstanding characters for all media and you'll have up to date skills for any 3D project whether it involves characters or not Learn Blender's updated user interface navigation and selection techniques Create your first scene with Blender and the Blender Render and Cycles render engines Organize an efficient step by step pipeline to streamline workflow in any project Master modeling unwrapping and texturing Bring your character to life with materials and shading Create your character's skeleton and make it walk Use Camera Tracking to mix 3D objects into a real world video Transform a raw rendered scene into the final result using Blender's compositing nodes Register your product at [informit.com/register](http://informit.com/register) for convenient access to downloads updates and corrections as they become available

**CRC Handbook of Chemistry and Physics, 96th Edition** William M. Haynes, 2015-06-09 Proudly serving the scientific community for over a century this 96th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference mirroring the growth and direction of science This venerable work continues to be the most accessed and respected scientific reference in the world An authoritative resource consisting of tables of data and current international recommendations on nomenclature symbols and units its usefulness spans not only the physical sciences but also related areas of biology geology and environmental science The 96th edition of the Handbook includes 18 new or updated tables along with other updates and expansions A new series highlighting the achievements of some of the major historical figures in chemistry and physics was initiated with the 94th edition This series is continued with this edition which is focused on Lord Kelvin Michael Faraday John Dalton and Robert Boyle This series which provides biographical information a list of major achievements and notable quotations attributed to each of the renowned chemists and physicists will be continued in succeeding editions Each edition will feature two chemists and two physicists The 96th edition now includes a complimentary eBook with purchase of the print version This reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach

**New Tables**  
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to 72 Percent Perchloric Acid Relative Dose Ranges from Ionizing Radiation Updated and Expanded Tables Section 6 Fluid Properties Sublimation Pressure of Solids Vapor Pressure of Fluids at Temperatures Below 300 K Section 7 Biochemistry Structure and Functions of Some Common Drugs Section 9 Molecular Structure and Spectroscopy Bond Dissociation Energies Section 11 Nuclear and Particle Physics Summary Tables of Particle Properties Table of the Isotopes Section 14 Geophysics Astronomy and Acoustics Major World Earthquakes Atmospheric Concentration of Carbon Dioxide 1958 2014 Global Temperature Trend 1880 2014 Section 15 Practical Laboratory Data Dependence of Boiling Point on Pressure Section 16 Health and Safety Information Threshold Limits for Airborne Contaminants

*Lubrication Fundamentals, Revised and Expanded* Don M. Pirro, Martin Webster, Ekkehard Daschner, 2017-07-31 Careful selection of the right lubricant s is required to keep a machine running smoothly *Lubrication Fundamentals Third Edition Revised and Expanded* describes the need and design for the many specialized oils and greases used to lubricate machine elements and builds on the tribology and lubrication basics discussed in previous editions Utilizing knowledge from leading experts in the field the third edition covers new lubrication requirements crude oil composition and selection base stock manufacture lubricant formulation and evaluation machinery and lubrication fundamentals and environmental stewardship The book combines lubrication theory with practical knowledge and provides many useful illustrations to highlight key industrial commercial marine aviation and automotive lubricant applications and concepts All previous edition chapters have been updated to include new technologies applications and specifications that have been introduced in the past 15 years What s New in the Third Edition Adds three new chapters on the growing renewable energy application of wind turbines the impact of lubricants on energy efficiency and best practice guidelines on establishing an in service lubricant analysis program Updates API SAE and ACEA engine oil specifications descriptions of new engine oil tests impact of engine and fuel technology trends on engine oil Includes the latest environmental lubricant tests definitions and labelling programs Compiles expert information from ExxonMobil publications and the foremost international equipment builders and industry associations Covers key influences impacting lubricant formulations and technology Offers data on global energy demand and interesting statistics such as the worldwide population of nuclear reactors wind turbines and output of hydraulic turbines Presents new sections on the history of synthetic lubricants and hazardous chemical labeling for lubricants Whether used as a training guide for industry novices a textbook for students to understand lubrication principles or a technical reference for experienced lubrication and tribology professionals *Lubrication Fundamentals Third Edition Revised and Expanded* is a must read for maintenance professionals lubricant formulators and marketers chemists and lubrication surface chemical mechanical and automotive engineers



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