

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 ₁	HT ₁			
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	⊖	—	+	+	+	—	—	⊖	Good load-carrying, low toxicity	-40 °C -20 °C	120 °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	120 °C 200 °C	Lithium complex soap / mineral oil	320	
LGSP 3	M to VL	VL to M	M to VL	⊖	+	+	+	+	—	—	+	M ¹ high viscosity high temperature (°C)	-40 °C -20 °C	120 °C 200 °C	Complex calcium sulfonate / mineral oil	320	
LGMP 3	M to VL	M to VL	L to M	+	—	—	⊖	⊖	+	⊖	+	High performance grease grease	-40 °C -20 °C	120 °C 200 °C	Si-lithium / mineral oil	32	
LGST 2	VL	L to M	M to VL	⊖	+	+	⊖	⊖	—	—	⊖	Extreme temperature	-40 °C -20 °C	120 °C 200 °C	PTM / synthetic (fluorinated compound)	320	

LT₁ LT₂ Low temperature limit

HT₁ HT₂ High temperature performance limit

HT₂ max. at 100 °C / 200 °C / 300 °C

LT₂ LT₃ Low additional load temperatures at 100 °C / 200 °C

LT₃ LT₄ Low additional load temperatures at 100 °C / 200 °C

LT₄ LT₅ Low additional load temperatures at 100 °C / 200 °C

LT₃ LT₄ Low additional load temperatures at 100 °C / 200 °C

LT₅ LT₆ Low additional load temperatures at 100 °C / 200 °C

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LT₁: LT₁ / Low temperature limit
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LT₃: LT₃ / Low temperature limit
HT₃: HT₃ / High temperature performance limit
HT₄: HT₄ / High temperature performance limit

⊕ Recommended

⊖ Suitable

— Not suitable

www.skf.com/industrialgrease

Basic bearing grease selection

General purpose (Speed < M, Temperature < 120 and oil < M)	LGHT 2	General purpose
Extreme pressure (extremely > 200 °C / 350 °F)	LGMP 2	High temperature
Special bearing temperatures (extremely > 200 °C / 350 °F, demands for maximum resistance)	LGST 2	Extremely high temperature
Low viscosity (100 °C / 212 °F, special bearing temperature < 100 °C / 212 °F)	LGLT 2	Low temperature
Shock loads, heavy loads, frequent start/stop / start stops	LGSP 2	High load
Food processing industry	LGFP 2	Food processing
Good load-carrying, demands for low toxicity	LGSH 2	Good load-carrying

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

Bearing operating parameters

Temperature		
LT ₁ : LT ₁	LT ₁ : LT ₁ / 320 °F	
HT ₁ : HT ₁	HT ₁ : HT ₁ / 350 °F, 350 °F, 350 °F	
HT ₂ : HT ₂	HT ₂ : HT ₂ / 350 °F	
HT ₃ : HT ₃	HT ₃ : HT ₃ / 350 °F	
Speed for ball bearings		
LT ₁ : LT ₁	LT ₁ : LT ₁ / 320 °F	
HT ₁ : HT ₁	HT ₁ : HT ₁ / 350 °F	
HT ₂ : HT ₂	HT ₂ : HT ₂ / 350 °F	
HT ₃ : HT ₃	HT ₃ : HT ₃ / 350 °F	
HT ₄ : HT ₄	HT ₄ : HT ₄ / 350 °F	
Speed for roller bearings		
LT ₁ : LT ₁	LT ₁ : LT ₁ / 320 °F	
HT ₁ : HT ₁	HT ₁ : HT ₁ / 350 °F	
HT ₂ : HT ₂	HT ₂ : HT ₂ / 350 °F	
HT ₃ : HT ₃	HT ₃ : HT ₃ / 350 °F	
HT ₄ : HT ₄	HT ₄ : HT ₄ / 350 °F	
Load		
LT ₁ : LT ₁	LT ₁ : LT ₁ / 320 °F	
HT ₁ : HT ₁	HT ₁ : HT ₁ / 350 °F	
HT ₂ : HT ₂	HT ₂ : HT ₂ / 350 °F	
HT ₃ : HT ₃	HT ₃ : HT ₃ / 350 °F	
HT ₄ : HT ₄	HT ₄ : HT ₄ / 350 °F	

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Grease Selection Guide

**United States. National Aeronautics
and Space Administration**



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 ASTM 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 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 **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 *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

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

Lubrication and Lubricant Selection A. R. Lansdown, 2004 The author provides guidance to lubrication practice in industry with the emphasis on practical application He covers the appropriate selection of lubricants for a wide range of uses and the factors that determine their suitability Topics include basic principles of lubrication selection of lubricating oils oil supply and systems oil changing and conservation greases and anti seizures dry bearings solid lubrication and gas bearings sealing lubricant testing specification monitoring handling and storage health and safety

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 *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 **NHB.** ,1974 **A Planner's Guide for Selecting Clean-coal Technologies for Power Plants** Karin Oskarsson,1997-01-01 World Bank Discussion Paper No 373 This discussion paper constructs a consistent nationwide poverty profile of Cambodia to support the governments effort to strengthen the design of poverty reduction policies Basic data are given on the level and distribution of living standards as measured by per capita household consumption expenditures The authors use the Socioeconomic Survey of Cambodia SESC of 1993 94 to estimate poverty measures and make poverty comparisons for Cambodia **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 Section 1 Basic Constants Units and Conversion Factors Descriptive Terms for Solubility Section 8 Analytical Chemistry Stationary Phases for Porous Layer Open Tubular Columns Coolants for Cryotrapping Instability of HPLC Solvents Chlorine Bromine Combination Isotope Intensities Section 16 Health and Safety Information Materials Compatible with and Resistant 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 **Handbook of Polymers for Electronics**

George Wypych, 2021-01-30 Polymers used in electronics and electrical engineering are essential to the development of high tech products with applications in space aviation health automotive communication robotics consumer products and beyond Typical features of mainstream polymers such as mechanical performance optical behavior and environmental stability frequently need to be enhanced to perform in these demanding applications creating the need to develop special grades or use completely new chemistry for their synthesis Similarly the typical set of properties included in the description of mainstream polymers are not sufficient for polymer selection for these applications as they require different data data that is meticulously detailed in the Handbook of Polymers for Electronics The book provides readers with the most up to date information from the existing literature manufacturing data and patent filings Presenting data for all polymers based on a consistent pattern of arrangement the book provides details organized into the following sections General history synthesis structure commercial polymers physical properties electrical properties mechanical properties chemical resistance flammability weather stability thermal stability biodegradation toxicity environmental impact processing blends analysis The contents scope treatment and novelty of the data makes this book an essential resource for anyone working with polymeric materials used in modern electronic applications Synthesizes the most recent literature available on various grades of polymers plastics finished products and patents Provides data on general information synthesis structure physical properties electrical properties mechanical properties chemical resistance flammability weather stability thermal stability biodegradation toxicity environmental impact and more Details information on crystalline structure cell dimensions methods of synthesis optoelectrical properties relative permittivity dissipation factor actuation bandwidth tear strength abrasion resistance and more *CRC Handbook of Chemistry and Physics* William M. Haynes, 2016-06-22 Proudly serving the scientific community for over a century this 97th 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 97th edition of the Handbook includes 20 new or updated tables along with other updates and expansions It is now also available as an eBook This reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach **Guide to Conducting Treatability Studies Under CERCLA**, 1992

Enjoying the Track of Appearance: An Emotional Symphony within **Grease Selection Guide**

In some sort of eaten by monitors and the ceaseless chatter of quick conversation, the melodic elegance and psychological symphony developed by the published term often fade in to the back ground, eclipsed by the constant noise and disruptions that permeate our lives. But, nestled within the pages of **Grease Selection Guide** a stunning literary value filled with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that charming masterpiece conducts viewers on an emotional journey, well unraveling the hidden melodies and profound influence resonating within each carefully crafted phrase. Within the depths with this touching examination, we will investigate the book is main harmonies, analyze their enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

https://staging.conocer.cide.edu/results/Resources/default.aspx/Introduction_To_Environmental_Forensics.pdf

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