

SKF bearing grease selection chart

Bearing operating conditions	Temp	Speed	Load	Vertical shock	Fast water ingress	Polluting environment	Severe vibration	Shock load or frequent starting	Corrosion	Low friction	Low starting torque	Description	Temperature range (°C)		Minimum base oil	Min oil density (kg/m³)
													LN	UN		
LEMT 2	M	M	L to M	○	-	-	+	-	-	○	+	General purpose industrial and automotive	-20 to 120	150 to 200	Lithium soap / mineral oil	820
LEMT 3	M	M	L to M	+	○	-	+	-	-	○	○	General purpose industrial and automotive	-20 to 120	150 to 200	Lithium soap / mineral oil	820
LEMP 2	M	L to M	M	○	-	○	+	+	-	-	+	Extreme pressure	-20 to 120	150 to 200	Lithium soap / mineral oil	820
LEMP 3	M	M	L to M	○	-	-	-	-	-	○	+	Food processing	-20 to 120	150 to 200	Maximum length / mineral oil	820
LESH 2	M	VL	M to VH	○	-	+	+	+	-	-	+	High viscosity grease with additives	-20 to 120	150 to 200	Lithium soap / mineral oil	820
LESH 3	M	VL	M to VH	○	-	+	+	+	-	-	+	Extremely high viscosity grease with additives	20 to 120	150 to 200	Lithium complex soap / mineral oil	1,000
LELT 2	L to M	M to VH	L	○	-	-	-	○	+	+	○	Low temperature, extremely high speed	-20 to 120	150 to 200	Lithium soap / PAO oil	81
LELB 2	L to M	L to M	M to H	○	-	+	+	+	-	○	○	Steel indistinguishable, low toxicity	-20 to 120	150 to 200	Lithium complex soap / synthetic ester oil	820
LEMB 2	L to M	L to M	M	-	-	+	-	+	-	-	+	Extreme pressure, low temperature	-20 to 120	150 to 200	Lithium soap / mineral oil	820
LEMB 3	L to M	L to M	M to H	○	○	+	+	+	-	-	+	High load, ultra-temperature	-20 to 120	150 to 200	Complex lithium soap / synthetic (polyethylene glycol)	81
LEMS 2	M to H	L to M	L to H	○	○	○	○	+	-	○	+	Wide temperature (°C), extreme pressure	-20 to 120	150 to 200	Lithium complex soap / mineral oil	820
LEMS 3	M to H	VL to M	M to VH	○	+	+	+	+	-	-	+	M² high viscosity, high temperature (°C)	-20 to 120	150 to 200	Complex lithium soap / mineral oil	820
LEMP 1	M to H	M to H	L to M	+	-	-	-	○	○	+	○	High performance, extreme pressure	-20 to 120	150 to 200	Mineral / mineral oil	81
LEST 2	M	L to M	M to VH	○	+	+	○	○	-	-	○	Extreme temperature	-20 to 120	150 to 200	EP2 / Synthetic Mineral/Mineral oil	820

LN: 20 / UN: Low temperature limit  
UN: High temperature performance limit  
M: min oil density 820 kg/m³

○: 2000 L per shaft per week temperature of 120 °C / 250 °F  
○: 10000 L per shaft per week temperature of 120 °C / 250 °F

○: 2000 L per shaft per week temperature of 200 °C / 390 °F  
○: 10000 L per shaft per week temperature of 200 °C / 390 °F

+ Recommended

○ Available

- Not available

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Basic bearing grease selection

General purpose (Speed: M, Temperature: M and/or UN)	LEMT 2	General purpose
High temperature	LEMP 3	High temperature
Extremely high temperature	LESH 3	Extremely high temperature
Low temperature	LELT 2	Low temperature
High load	LEMP 2	High load
Food processing	LEMP 3	Food processing
Steel indistinguishable, low toxicity	LESB 2	Steel indistinguishable

Note: - For steel with oxidizing high oxidation temperatures, use LEHT if instead of LEMT 2  
- For general operating conditions, refer to the SKF bearing grease selection chart

Bearing operating parameters

Temperature		
LN: min	200 °C / 390 °F	
UN: high	250 °C / 470 °F (for the LEHT 2)	
UN: high	280 °C / 530 °F	
UN: extremely high	300 °C / 570 °F	
Speed for ball bearings		
UN: extremely high	6,000 rpm (300,000)	
UN: high	10,000 rpm (500,000)	
M: high	15,000 rpm (750,000)	
M: medium	20,000 rpm (1,000,000)	
L: low	30,000 rpm (1,500,000)	
Speed for roller bearings	500 / 1000 rpm	1000
UN: high	1000 rpm (50,000)	1000 rpm (50,000)
M: high	1500 rpm (75,000)	1500 rpm (75,000)
M: medium	2000 rpm (100,000)	2000 rpm (100,000)
M: low	3000 rpm (150,000)	3000 rpm (150,000)
L: very low	4000 rpm (200,000)	4000 rpm (200,000)
Load		
UN: very high	UN = 2	
UN: high	UN = 4	
M: high	UN = 8	
L: low	UN = 16	

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Available pack sizes

	LEMT 2	LEMT 3	LEMP 2	LEMP 3	LESH 2	LESH 3	LELT 2	LELB 2	LEMB 2	LEMB 3	LEMS 2	LEMS 3	LEMP 1	LEST 2
1 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
15 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
50 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
60 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
70 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
80 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
90 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•
100 kg	•	•	•	•	•	•	•	•	•	•	•	•	•	•

SKF Maintenance Products

SKF Maintenance Products

SKF Maintenance Products are available in 100% biobased, food grade, vegetable oil based formulations. These products are designed to provide excellent performance in food processing applications. They are also suitable for use in other applications where food safety is a concern.



SKF bearing greases

Highest quality greases for bearing lubrication  
Guarantee of consistent quality as each product is manufactured at one location in the same formulation  
A complete product programme for general and specific bearing lubrication requirements  
International manufacturing of the SKF grease testing methods and equipment  
Worldwide product availability through the SKF dealer network



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**RJ Alexander**



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## **Table of Contents Kluber Grease Cross Reference Chart Sdocuments2**

1. Understanding the eBook Kluber Grease Cross Reference Chart Sdocuments2
  - The Rise of Digital Reading Kluber Grease Cross Reference Chart Sdocuments2
  - Advantages of eBooks Over Traditional Books
2. Identifying Kluber Grease Cross Reference Chart Sdocuments2
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Kluber Grease Cross Reference Chart Sdocuments2
  - User-Friendly Interface
4. Exploring eBook Recommendations from Kluber Grease Cross Reference Chart Sdocuments2
  - Personalized Recommendations
  - Kluber Grease Cross Reference Chart Sdocuments2 User Reviews and Ratings
  - Kluber Grease Cross Reference Chart Sdocuments2 and Bestseller Lists
5. Accessing Kluber Grease Cross Reference Chart Sdocuments2 Free and Paid eBooks

- Kluber Grease Cross Reference Chart Sdocuments2 Public Domain eBooks
  - Kluber Grease Cross Reference Chart Sdocuments2 eBook Subscription Services
  - Kluber Grease Cross Reference Chart Sdocuments2 Budget-Friendly Options
6. Navigating Kluber Grease Cross Reference Chart Sdocuments2 eBook Formats
    - ePub, PDF, MOBI, and More
    - Kluber Grease Cross Reference Chart Sdocuments2 Compatibility with Devices
    - Kluber Grease Cross Reference Chart Sdocuments2 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Kluber Grease Cross Reference Chart Sdocuments2
    - Highlighting and Note-Taking Kluber Grease Cross Reference Chart Sdocuments2
    - Interactive Elements Kluber Grease Cross Reference Chart Sdocuments2
  8. Staying Engaged with Kluber Grease Cross Reference Chart Sdocuments2
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Kluber Grease Cross Reference Chart Sdocuments2
  9. Balancing eBooks and Physical Books Kluber Grease Cross Reference Chart Sdocuments2
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Kluber Grease Cross Reference Chart Sdocuments2
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Kluber Grease Cross Reference Chart Sdocuments2
    - Setting Reading Goals Kluber Grease Cross Reference Chart Sdocuments2
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Kluber Grease Cross Reference Chart Sdocuments2
    - Fact-Checking eBook Content of Kluber Grease Cross Reference Chart Sdocuments2
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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