Ask for Mobil™ grease.



Protect your equipment and your productivity with Mobil™ grease

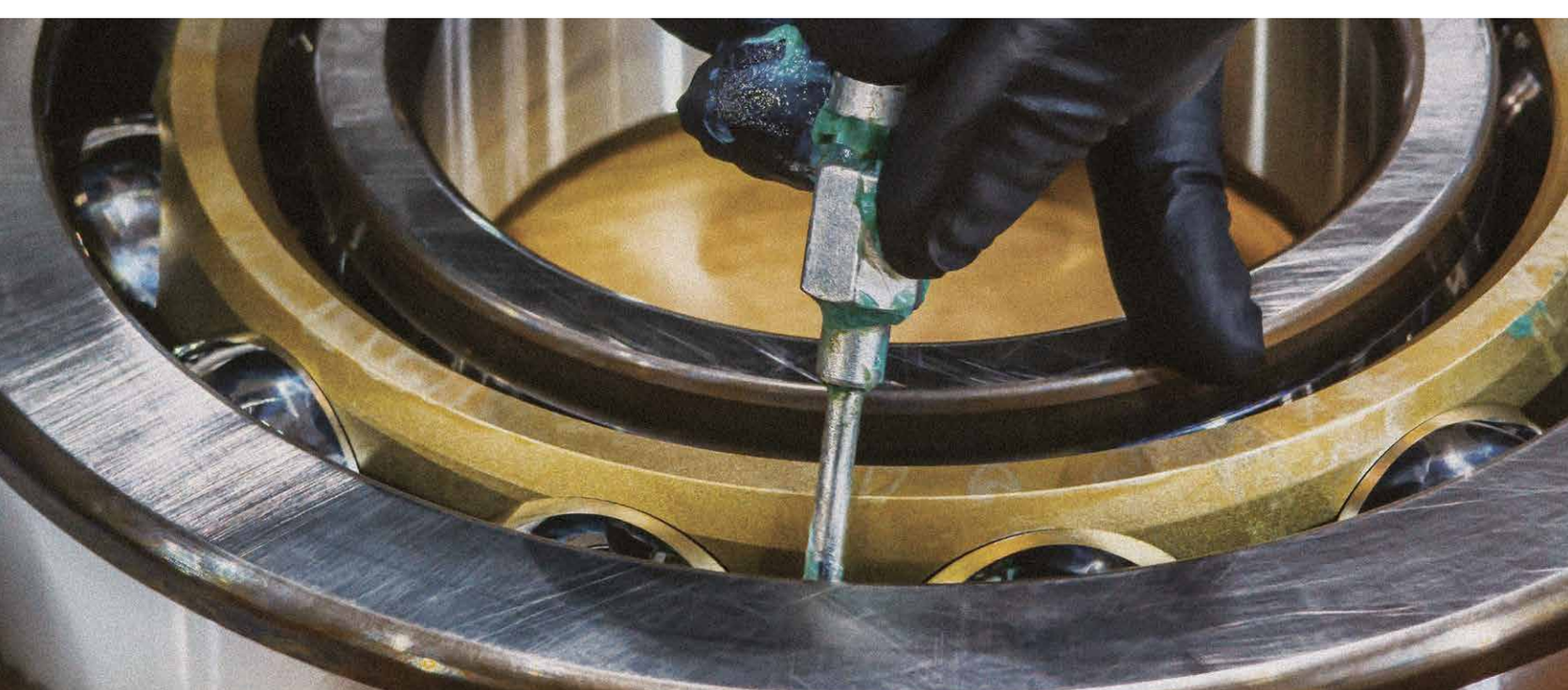
When your equipment is performing at its peak, you can focus on moving your business forward. Mobil™ grease is engineered to empower you with reliable protection, helping prevent overheating, reducing unplanned maintenance, and minimizing wear and tear. Even in the toughest operating conditions, Mobil grease works fast so your equipment and your productivity stay performing at their best.

From mining to construction, energy to automotive, steel to general manufacturing, Mobil grease is trusted across various commercial and industrial sectors. Mobil experts can provide you with a tailored solution from our advanced portfolio of high-performance products.

We work with world-leading OEMs to develop Mobil products built for their intended applications across the globe. Our greases deliver quality, consistency, and performance to help ensure equipment reliability.

With a wide range of Mobil greases, you'll find a solution that works for your application. And you can be confident you have the right product to help maximize uptime while reducing maintenance costs* and operational risks for your equipment.

*Maintenance costs may vary and are based on application-specific operating conditions. Not a guarantee of financial performance. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.



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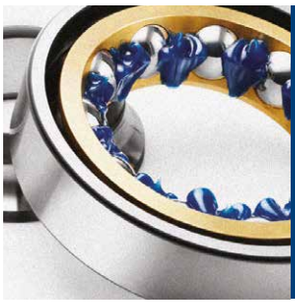
Why Mobil™

For more than 150 years, Mobil™ has led the advancement of industrial lubrication, delivering technology trusted across mining, manufacturing, energy, food processing, and heavy industry. Our high-performance greases combine advanced chemistry, world-class manufacturing, and industry-proven reliability, that is supported by industry-wide OEM approval and decades of field performance. You can trust Mobil's manufacturing excellence, advanced technology, and proven experience to help keep your equipment running reliably, today and into the future.



Developed with you in mind

- Created to help meet the demands of your industry, our comprehensive range offers solutions for many different applications.



Trusted by industry experts

- Industry leading businesses have transformed how equipment works through utilizing the right Mobil grease for different applications.
- 370+ builders approve or endorse Mobilith SHC™ Series greases.
- Mobilgrease XHP™ 222 is recognized by more than 150 builders of critical industrial equipment who approve or endorse its use.



Enhancing supply reliability

- Mobil greases are available consistently and reliably, even in remote or high-demand markets, this means you help avoid costly disruptions.
- We have recently invested to increase capacity to enhance supply reliability, to help meet growing customer demands.



Advancing innovation for decades

- Backed by years of dedicated grease research and development, Mobil greases help keep equipment running reliably, even in the most severe operating environments.

High-performance grease explained

Grease is made of oil, thickener, and additives, each with a distinct role in overall performance. Understanding what they all do is key to helping you make the right choice.

Base oil

Forming 80–90% of a typical grease, base oil creates a lubricating film between metal surfaces, helping reduce friction and prevent wear. High-viscosity oil is thicker and works best in low-speed applications, while low-viscosity oil is thinner and suits high-speed applications.

Thickener

Typically making up about 10–15% of a grease formula, the thickener works like a sponge that holds everything together until the right conditions release the oil to do its job. Thickeners affect how the grease interacts with other lubricants and help define important characteristics such as water resistance, high-temperature stability, and more.

Additives

Making up roughly 5–10% of a grease formulation, additives play a key role in boosting performance beyond what the base oil and thickener can provide on their own. They can deliver a variety of benefits, including wear protection, corrosion resistance, and improved control over oil-bleed properties.



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Understanding thickeners

The performance of your grease is everything. While the base oil and additives deliver most of the friction and wear protection, the thickener you choose plays a key role in performance. Different thickeners offer their own unique characteristics, such as shear stability, water resistance, and bleed resistance, making the right selection essential for getting the results you need.

The three main thickeners

Commercial businesses typically rely on three primary thickener types. Lithium complex greases offer versatile, multipurpose performance and remain the most widely used option in today's market. Calcium sulfonate greases continue to grow in popularity thanks to their strong protection against water, rust, and corrosion, making them well-suited for high-moisture or heavily contaminated environments. Polyurea greases are recognized for their excellent high-temperature and high-speed capabilities, making them especially effective for electric motor bearings.

Type	High temperatures	Water resistance	Mechanical stability	Pumpability	Oxidation stability
Lithium	●	●●	●●	●	●
Lithium complex	●●	●●	●●	●●	●●
Polyurea	●●●	●●	●●	●●	●●●
Clay	●●●	●		●	●●
Aluminum complex	●●	●●●	●●		●
Calcium sulfonate	●●●	●●●	●●		●
Calcium complex	●●	●●●			

Not suitable

Number of dots represents relative suitability

Grease standards

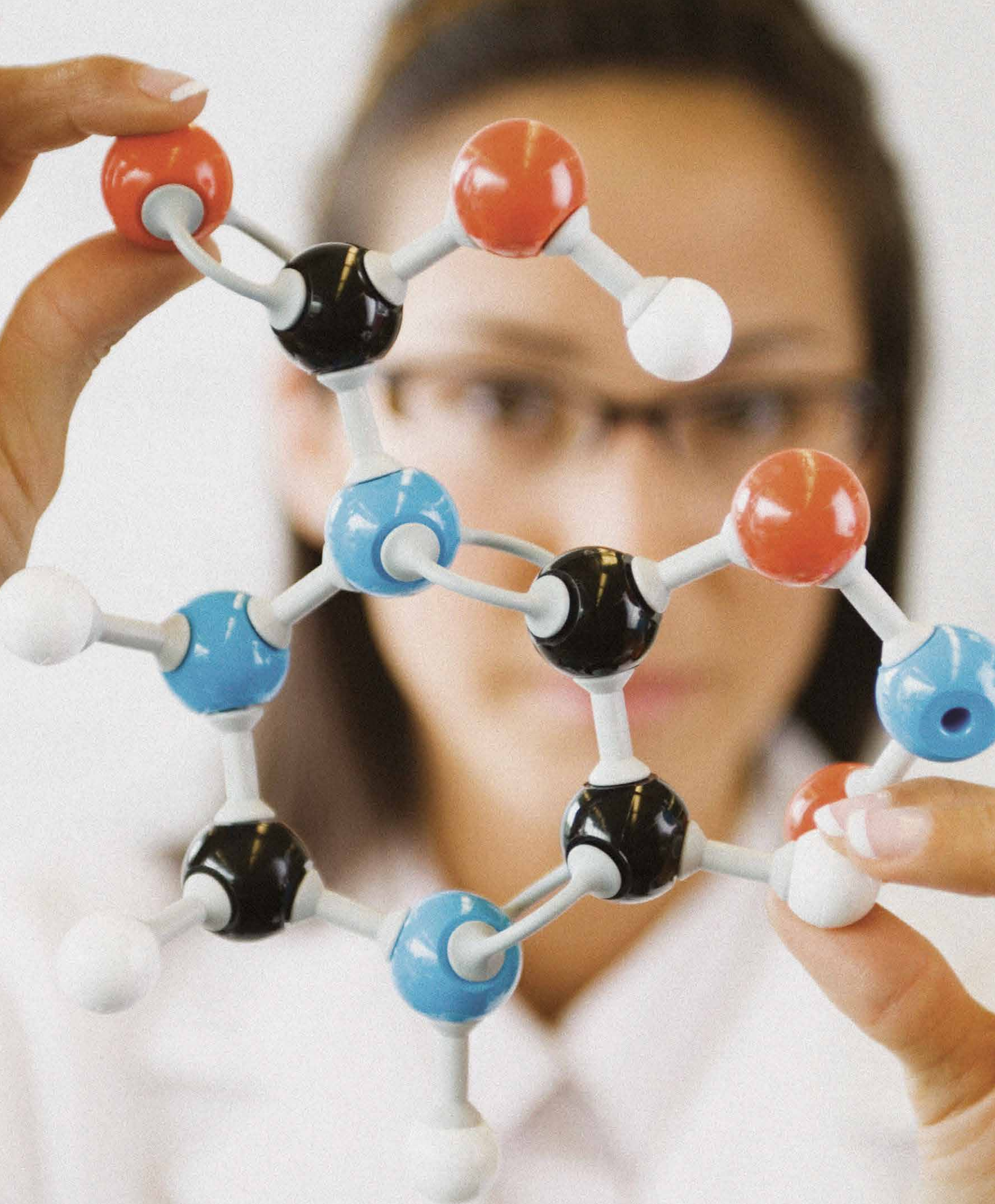
In the world of lubricating greases, the National Lubricating Grease Institute (NLGI) is essential in defining consistency standards across the industry. NLGI provides a detailed classification system where greases are assigned grades based on whether their appearance is semi-fluid, soft, or firm.

Higher NLGI numbers reveal a firmer consistency, while lower numbers represent a softer texture. The majority of Mobil™ greases fall between the 00 and 3 grades. You can explore the NLGI consistency spectrum to the right.

Remember that NLGI consistency and oil viscosity are not the same. A firmer NLGI 3 grease with anti-leakage properties can use the same oil viscosity as a semi-fluid NLGI 00 grease for centralized grease lubrication systems.

NLGI Grade	Appearance	NLGI Grade
000	Fluid	Cooking oil
00	Semi-fluid	Applesauce
0	Very soft	Brown mustard
1	Soft	Tomato paste
2	Normal grease	Peanut butter
3	Firm	Vegetable shortening
4	Very firm	Frozen yogurt
5	Hard	Smooth pate
6	Very hard	Cheddar cheese

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Find a Mobil™ branded industrial grease for all your lubrication needs.

	Thickener	Base Oil Viscosity @ 40°C mm²/s	NLGI
Mobil SHC Polyrex™ 005	Polyurea	220	00
Mobil SHC Polyrex™ 222	Polyurea	220	2
Mobil SHC Polyrex™ 462	Polyurea	460	2
Mobil SHC Polyrex™ 102 EM	Polyurea	85	2
Mobil SHC™ Grease 460 WT	Lithium Complex	460	1.5
Mobil SHC Grease™ 461 WT	Lithium Complex	460	1.5
Mobil SHC Grease™ 681 WT	Lithium Complex	680	1.5
Mobil SHC Grease™ 68 IPC	Lithium Complex	68	1.5
Mobilith SHC™ 007	Lithium Complex	460	00
Mobilith SHC™ 100	Lithium Complex	100	2
Mobilith SHC™ 220	Lithium Complex	220	2
Mobilith SHC™ 221	Lithium Complex	220	1
Mobilith SHC™ 460	Lithium Complex	460	1.5
Mobilith SHC™ 1500	Lithium Complex	1500	1.5
Mobilith SHC™ PM 220, 460	Lithium Complex	220, 460	1.5
Mobiltemp SHC™ 32	Clay	32	1.5
Mobiltemp SHC™ 100	Clay	100	1.5
Mobiltemp SHC™ 460 Special	Clay	460	0.5
Mobilgrease XHP™ 221	Lithium Complex	220	1
Mobilgrease XHP™ 222	Lithium Complex	220	2
Mobilgrease XHP™ 223	Lithium Complex	220	3

Industry icon key

	Manufacturing & Assembly		Construction & Mining		Electric Fan Bearing		Electric Motor Bearing
	Couplings		Cement		Wind		Spindle Bearing

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The list below is intended as a general guide only. Our experienced lubrication engineers can recommend the optimum use of all these products. Full details about these and any other Mobil-branded industrial greases are contained in Product and Material Safety Data Sheets, obtainable from your local sales office or distributor.

ExxonMobil Recommended Operating Temperature*		Specifications and Approvals	Typical Applications
Min °C	Max °C		
-30	170	NSF H1 Registered, Kosher (Parve) DIN 51826:2005-01 GPFHC00K-30 FDA 21 CFR 178.3570	Food processing, wide temperature range, long grease life for moderate loads, central distribution systems, manufactured in a facility registered to the requirements of ISO 21469.
-30	170	NSF H1 Registered, Kosher (Parve) 222-DIN 51825:2004-06 KPFHC2P-30 FDA 21 CFR 178.3570	Food processing, wide temperature range, long grease life for moderate loads, central distribution systems, manufactured in a facility registered to the requirements of ISO 21469.
-20	170	NSF H1 Registered, Kosher (Parve) DIN 51825:2004-06 KPF2P-20 FDA 21 CFR 178.3570	Food processing, very high temperatures, long grease life for moderate loads, manufactured in a facility registered to the requirements of ISO 21469
-30	180	DIN | 51825: 2004-06 KHC2R-30	Long-life, extreme high-temperature lubrication of electric motor ball and roller bearings, particularly in sealed-for-life applications up to 180 C
-30	150	DIN | 51825: 2004-06 KPHC1-2N-30	Wind turbine pitch, main and yaw bearings.
-50	120	DIN 51825: 2004-06 KP HC 1-2 M -50	Wind turbine yaw, pitch, and generator bearings - very low starting and running torque, excellent low temperature pumpability properties and enhanced wear protection
-50	120	DIN | 51825: 2004-06 KPHC1-2M-50	Wind turbine yaw, pitch, and generator bearings - very low starting and running torque, excellent low temperature pumpability properties and enhanced wear protection
-50	140	DIN | 51825: 2004-06 KPFHC1-2N-50	Wind turbine individual pitch control (IPC) and yaw bearings - excellent low temperature pumpability properties and enhanced wear protection
-30	120	DIN 51826:2005-01 GPHC00K-30 Cincinnati Machine P-81	Slow-speed gear boxes, poorly sealed gear cases. Nondriven wheel hubs.
-40	150	DIN 51825:2004-06 KPHC2N-40 AAR-942, Cincinnati Machine P-73	High-speed bearings. Electric motors. Wind turbine generators.
-30	150	DIN 51825:2004-06 KPHC2N-30	Multipurpose, wide temperature range.
-40	150	AAR-942	Multipurpose, centralized grease systems. Wide temperature range. Rail applications (by approval).
-40	150	DIN 51825:2004-06 KPHC1-2N-40	Heavy-duty applications experiencing slow speeds and heavy loads. Wide temperature ranges.
-30	150	DIN 51825:2004-06 KPHC1-2N-30	Extreme heavy-duty service for slow, highly loaded bearings. High temperatures.
-40	150	DIN 51825:2004-06 KPHC1-2N-40	Mobilith SHC PM greases are recommended for critical rolling element bearing applications in paper machines.
-50	120	DIN 51825:2004-06 KPHC1-2K-50	High-speed spindle bearings, splines, screws, and machine tools operating in a wide temperature range.
-50	180	N/A	High-speed bearings and thrust bearings operating in a wide temperature range. Electric motors (by approval).
-40	180	N/A	High-speed spindle bearings, splines, screws, and machine tools operating in a wide temperature range.
-20	140	Fives Cincinnati P-72 DIN 51825:2004-06 - KP 1 N -20	Multipurpose. Excellent water resistance. Automotive wheel bearings.
-20	140	Fives Cincinnati P-64 DIN 51825:2004-06 - KP 2 N -20 NLGI HPM+WR	Multipurpose. Excellent water resistance. Automotive wheel bearings.
-10	140	N/A	For severe applications where antileakage properties are needed.

Heavy Commercial Vehicles	Steel & Aluminum	Paper & Pulp	Environmentally Aware	Open Gears
Automotive	Food Machinery	Gears	Railroad	Mining Shovels

Find a Mobil™ branded industrial grease for all your lubrication needs.

		Thickener	Base Oil Viscosity @ 40°C mm^2/s	NLGI
	Mobilgrease XHP™ 461, 462 	Lithium Complex	**460**	**1,2**
	Mobilgrease XHP™ 100 Mine 	Lithium Complex	**100**	**0**
	Mobilgrease XHP™ 322 Mine 	Lithium Complex	**320**	**0,1,2**
	Mobilgrease XHP 681 Mine 	Lithium Complex	**680**	**1**
	Mobilgear™ OGL 007 	Lithium	**460**	**00-0**
	Mobilgear™ OGL 2800 	Lithium	**2800**	**0**
	Mobilgear™ OGL 461 	Lithium	**460**	**1.5**
	Mobilux™ EP 004 	Lithium	**150**	**00**
	Mobilux™ EP 0 	Lithium	**150**	**0**
	Mobilux™ EP 1, 2 	Lithium	**150**	**1,2**
	Mobilux™ EP 3 	Lithium	**150**	**3**
	Mobil Polyrex™ EM 	Polyurea	**115**	**2**
	Mobil Polyrex™ EM 103 	Polyurea	**115**	**3**
	Mobilgrease™ FM 101, 222 	Aluminium Complex	**222-220**	**2**
	Mobilgrease™ XTC 	Lithium	**680**	**1**
	Unirex™ N2 	Lithium Complex	**113**	**2**
	Unirex™ N3 	Lithium Complex	**113**	**3**
	Unirex™ EP 2 	Lithium Complex	**220**	**2**
	Mobil Centaur™ XHP 221 	Calcium Sulfonate	**220**	**1.5**
	Mobil Centaur™ XHP 461 	Calcium Sulfonate	**460**	**1.5**
	Mobil Centaur™ XHP 462 	Calcium Sulfonate	**460**	**2**
	Mobil Polyrex™ 461 EP 	Polyurea	**460**	**1**
	Mobil Infinitec™ 152 	Lithium Complex	**120**	**1.5**

*Recommended operating temperature range based upon lab rig testing and field experience.

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The list below is intended as a general guide only. Our experienced lubrication engineers can recommend the optimum use of all these products. Full details about these and any other Mobil-branded industrial greases are contained in Product and Material Safety Data Sheets, obtainable from your local sales office or distributor.

ExxonMobil Recommended Operating Temperature*		Specifications and Approvals	Typical Applications
Min °C	Max °C		
-20	140	N/A	Multipurpose applications with heavier loads and slower speeds. Excellent water tolerance.
-30	140	N/A	Excellent mobility at very low temperatures, tacky and adhesive. Excellent water resistance. Equipment protection in high sliding mechanisms and heavy loads.
-20	140	N/A	Good mobility at very low temperatures, tacky and adhesive. Excellent water resistance. Equipment protection in high sliding mechanisms and heavy loads.
-10	140	Komatsu Mining	Slow-moving, heavily loaded bearings and bushings experiencing high loads and sliding mechanisms. Excellent water resistance.
-20	120	Bucyrus International SD4713, OGL	Heavily loaded slow to medium speed gearing.
0	100	N/A	Open gear application
-20	120	N/A	Heavily loaded slow to medium speed gearing.
-20	100	DIN 51826:2005-01 GP00G-20 SEW R32/302	Enclosed gears and bearings in poorly sealed gear cases.
-10	100	DIN 51826:2005-01 GP0G-10	General-purpose industrial grease.
-20	120	1-DIN 51825:2004-06 KP1K-20 2-DIN 51825:2004-06 KP2K-20	General-purpose industrial grease.
-20	120	DIN 51825:2004-06 KP3K-20	General-purpose industrial grease.
-20	160	DIN 51825:2004-06 K2P-20	High temperatures and speeds. Long life. Provides low-noise performance, light loads.
-10	160	N/A	High temperatures and speeds. Long life. For applications where antileak performance is needed such as vertically mounted motors.
-20	120	DIN 51825:2004-06 KPF1/2K-20 Cincinnati Machine P-72/P-64	Multipurpose NSF H1 Grease, good resistance to water wash, good low temperarture mobility
-30	120	AGMA CG-1, AGMA CG-2	AGMA CG1/CG2 high-speed, flexible couplings.
-20	140	DIN | 51825: 2004-06 K2N-20L ISO 6743-9: 2003 L-XBDHA 2	High temperatures and speeds.
-20	140	DIN | 51825: 2004-06 K3N-20L	High temperatures and speeds.
-15	140	N/A	Applications with severe water contamination, in vehicle wheel bearings, non-critical centralized systems, as well as grid-type flexible couplings.
-20	140	KP1-2G-20	Heavily loaded and water saturated applications in the steel and paper mill environments, excellent high temperature oil bleed control and extreme-pressure protection
-20	140	DIN 51825:2004-06 - KPF 1 K-20	Heavily loaded and water saturated applications in the steel and paper mill environments, excellent high temperature oil bleed control and extreme-pressure protection
-20	140	N/A	Heavily loaded and water saturated applications in the steel and paper mill environments, excellent high temperature oil bleed control and extreme-pressure protection
-20	160	DIN | 51825: 2004-06 KPF1P-20	Medium to slow speed moving plain or roller bearings exposed to high temperatures, severe load and shock loading - excellent pumpability in central grease systems.
-30	150	N/A	Long-life, high-temperature performance for automotive wheel bearing and chassis application

For more information on Mobil greases and other Mobil Lubricants, call your local sales representative or visit **mobil.com/industrial**

Proven performance

Productivity and performance underpin all Mobil™ grease products. Industry-leading businesses have improved equipment reliability and operational efficiency by selecting the right Mobil grease for their specific applications.

Available in a range of NLGI consistency and viscosity grades, our high-technology greases can help provide you with benefits for your equipment, with formulations designed to help meet the diverse performance requirements of various industries and applications:

- Cost effective solutions to lubrication*
- Enhanced equipment reliability and performance
- Boosted productivity and efficiency

Annual saving of up to 50,000 EUR with Mobil SHC Polyrex™ 462 synthetic grease**

Changing to Mobil SHC Polyrex™ 462 synthetic grease improved one food company's bearing life to at least 1,000 hours (over 41 days' worth of operating hours), reducing maintenance work and production time and resulting in significant annual savings.

Savings of up to $189,300 per year with Mobilith SHC™ 100 synthetic grease**

A transportation truck fleet achieved an average lifetime of 370,000 km for wheel bearings with Mobilith SHC™ 100 synthetic grease, providing a sharp increase in productivity and maintenance savings.

Reduce grease consumption by 40% with Mobil Centaur™ XHP 461**

After switching to Mobil Centaur™ XHP 461, a steel mill eliminated bearing failures, reduced grease consumption by 40%, and experienced minimal grease leakage around the casting machine.



*Maintenance costs may vary and are based on application-specific operating conditions. Not a guarantee of financial performance. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.
**This proof of performance is based on the experience of a single customer and is not a guarantee of financial performance. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

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Performance you can rely on

For more than 100 years, Mobil™ has engineered advanced greases designed to help professionals like you increase productivity across commercial and industrial operations worldwide.

Backed by technical knowledge and real-world experience, Mobil experts work alongside customers to help select the right grease for the job, so you can protect critical equipment, optimise performance, and run an operation that performs at its best, day after day.

Switch to Mobil™ greases and discover a range of great benefits. Visit **mobil.com/industrial**



To discover more about Mobil greases and their industrial applications, visit mobil.com/industrial to explore information tailored to your specific market.

mobil.com/industrial



Using and maintaining Mobil™ grease products

Greases are the lifeblood of your equipment, and correctly caring and using different greases will help improve the equipment's performance.

All our Mobil greases work together with our service programs to create what we call Advancing Productivity. Critical safety, environmental care, and productivity benefits help your business perform at its best for longer.

Critical safety, environmental care, and productivity benefits help your business perform.

How should greases be stored?

Mobil greases should be stored in their original sealed containers at ambient temperatures in sheltered locations. When stored properly in their original sealed containers, Mobil-branded greases have a recommended shelf life of five years.

What is static bleed?

If you open a grease container and see a puddle of oil on top, you might not know what this is or if the grease can still be used. This puddle of oil is known as static bleed. Static bleed can be caused by storage conditions, such as temperature, length of storage, or vibrations exposed to containers. A small amount of static bleed is usually acceptable, and the grease can still be used.

Can different greases be mixed?

Mixing different types of greases can sometimes lead to incompatibility problems through hardening or softening the grease mixture. This can lead to equipment failure or damage to the lubricated components. To avoid this, thoroughly flush out the previous grease before applying a new type.



Discover answers to your other grease-related questions:

mobil.com/industrial

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