TIMKEN

Timken® Lubricants Boost Efficiency















Choose Timken® Lubricants for Optimal Performance

The right lubrication and lubricant delivery systems can help extend bearing life, protect your equipment, reduce costs and keep your operations running efficiently.

Timken expertise in tribology and bearings gives you a reliable line of lubricants developed for specific applications and environments. High-temperature, anti-wear and water-resistant additives help provide superior protection in particularly challenging environments where dirt, corrosion and other contaminants are common.

When you choose Timken as your lubrication resource, you gain exceptional customer service and technical support. Discover the benefits of our suite of products and services that extend from lubrication delivery systems to training and bearing maintenance. We can help analyze your operational performance and recommend solutions that make sense for your unique production demands.

For more information on Timken lubricants, contact your authorized Timken distributor or sales representative, or visit www.timken.com/lubricants.

Expertly Blended Greases for Specific Applications

	Environment	Application
 Timken® Mill Grease	Corrosive Media • Extreme Heat Heavy Loads • Wet Conditions Slow to Moderate Speeds	Aluminum Mills • Paper Mills Steel Mills • Offshore Rigs Power Generation
 Timken® Premium All Purpose Industrial LC-2 Grease	High Wear • Moderate Loads Moderate Speeds Moderate Temperatures	Agriculture • Bushings/Ball Joints Truck and Auto Wheel Bearings Heavy-Duty Industrial
 Timken® Construction and Off-Highway Grease	Extreme Heat • Heavy Loads High Sliding Wear Dirty Environments Slow Speeds • Shock Loading	Agriculture/Mining • Cement Plants Construction/Off Road • Rock Quarry Earth-Moving Equipment Fleet Equipment • Heavy Industry Pivot Pins/Splined Shafts
 Timken® Ball Bearing Pillow Block Grease	Wet and Corrosive Conditions Quiet Environments • Light Loads Moderate to High Speeds Moderate Temperatures	Lightly Loaded Pillow Blocks Idler Pulleys • Oven Conveyors Electric Motors • Fans • Pumps
 Timken® Food Safe Grease	Incidental Food Contact Hot and Cold Temperatures Moderate to High Speeds Medium Loads	Food and Beverage Industries Pharmaceuticals (only for ball bearing applications)
 Timken® Synthetic Industrial LC-1.5 Grease	Extreme Low and High Temperatures Severe Loads Corrosive Media Slow to Moderate Speeds	Wind Energy Main Bearing Pulp and Paper Machines General Heavy Industry Marine Applications Centralized Grease Systems
 Timken® Multi-Use Lithium EP1 and EP2 Grease	Moderate Speeds Light to Moderate Loads Moderate Temperatures Moderate Water	General Industrial Applications Pins and Bushings • Track Rollers Water Pumps Plain and Antifriction Bearings
 Timken® High-Performance Roller Housed Unit Grease	Extreme Load, High Wear, Moderate Speed, High Temperatures, Shock Loading	Metals, Mining, Aggregate, Power Generation, Material Handling, and Heavy Industries.

Lids are color-coded for easy identification

This selection guide is not intended to replace specific recommendations by the equipment builder who is responsible for its performance.

Smart lubrication delivery solutions

Timken offers a wide range of lubricant delivery systems to help you maintain the optimal levels of grease for your specific operations.

For single-point applications, we offer products to help users manage release of Timken lubricant efficiently, depending on the specific environments and requirements.

Timken also offers multi-point systems. Timken® Interlube lubricators offer several options for reliably distributing lubricant into machine operations.

These devices may be filled with Timken lubricants or many other types of commercial lubricants. Optional mounting accessories are also available.





Select Your Grease Carefully for Reliable Performance

Identifying the optimal grease requires a good understanding of each specific application, particularly operating load, speed, temperature and ambient conditions. There is no universal anti-friction bearing grease.Each grease has limiting properties and characteristics.

Bearing grease is composed of a base-oil, a thickening agent and additives.Specific base-oils are designed to handle certain applications and environments:

Demanding applications	Recommended base-oil
High-speed	Low viscosity
High-temperature	High viscosity with extreme pressure (EP) additive/solid lubricants
Low-speed, high-load	High viscosity

Thickening agents within grease manage the "bleed-rate" by releasing or retaining the base-oil.Some grease thickeners are incompatible with certain thickeners, as well as additives, resulting in undesirable softening or hardening of the grease.This may cause poor lubrication scenarios that can shorten the lives of components.Additives used within grease are designed to provide extra protection in demanding conditions.

If you need expert advice when selecting grease, consult your Timken engineer. Interchange guides* are proved below.

Timken® Mill Grease • Part #GR180, GR181, GR182, GR183



- Calcium sulfonate-thickened grease
- Excellent resistance to water washout
- Superior protection against rust and corrosion, including salt spray
- Excellent high-temperature properties
- Timken Mill Grease is formulated with high VI parafinic mineral oil, resulting in very good oxidation stability
- Operating temperatures from -40° C to 204° C (-40° F to 400° F)
- Applications: Steel mills, paper mills, aluminum mills, foundries, cement plants, power generation, off-road applications, mineral processing, offshore rigs and marine applications
- This grease is available in three NLGI grades:
  - -Part #GR180-NLGI No. 1
  - -Part #GR181-NLGI No. 1.5
  - -Part #GR182-NLGI No. 2
  - -Part #GR183-NLGI No. 2-with tackifiers

-5 kg (11 lb.) pail	– Part #GR180G	– Part #GR182G
-16 kg (35.3 lb.) pail	– Part #GR180P	– Part #GR182P
-55 kg (121.3 lb.) keg	– Part #GR180K	– Part #GR182K
-180 kg (396.8 lb.) drum	– Part #GR180D	– Part #GR183D
	– Part #GR181D	

Interchange Guide

Castrol Molub-Alloy 777-2ES™
Chem & Lube Black Magic™
Chevron Ulti-Plex EP 2™
Ronex Extra Duty 2™
FAG Arcanol Load 400™
Kyodo Yushi Palmax RBG™
Loctite ViperLube™
LUBRIPLATE® 1444
SKF LGHB2™

Timken® Premium All Purpose Industrial LC-2 Grease • Part #GR217



- NLGI No. 2 extreme pressure, lithium-complex thickened grease
- Solid protection against rust and corrosion
- Excellent protection against wear
- Operating temperature range of -40° C to 149° C (-40° F to 300° F)
- Applications: Ideal for industrial bearings operating at higher-than-average temperatures and/or subjected to shock loading, as well as heavy-duty on- and off-road applications, wheel bearings, axles, ball joints, U joints, power takeoffs, king pins, bushings, trucks, buses and automobiles
- Available in:

-400 g (14.1 oz.) cartridges, 10/case –	Part #GR217C
-454 g (1 lb.) tubs, 6/case –	Part #GR217T
-1 kg (2.2 lb.) tubs –	Part #GR217F
-5 kg (11 lb.) pail –	Part #GR217G
-16 kg (35.3 lb.) pail –	Part #GR217P
-55 kg (121.3 lb.) keg –	Part #GR217K
-180 kg (396.8 lb.) drum –	Part #GR217D

Interchange Guide

Castrol 4020/220-2™
Chevron Delo® EP 2
Citgo Lithoplex MP2™
Citgo Premium Lithium EP 2™
Ronex MP™
Unirex EP 2™
FAG LOAD220™
Fuchs (Century) Uniwrl 2™
Lubrication Engineers Almagard® 3752
LUBRIPLATE® 1552
Mobilgrease® XHP 222
Pennzoil® Premium Lithium Complex 2
Petro-Canada Multipurpose EP 2™
Royal Purple® Ultra-Performance® 2
SKF LGWA2™
SKF LGEP2™
Texaco Starplex® 2
76 Multiplex Red

*Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

Timken® Construction and Off-Highway Grease • Part #GR219



- NLGI No. 2 calcium sulfonate grease with 5 percent moly
- Provides resistance to extreme pressures caused by shock loading
- Timken OK Load – 65 lbs.
- Protects against rust and corrosion
- Offers excellent high-temperature properties
- Operating temperatures of -40° C to 204° C (-40° F to 400° F)
- Applications: High-load, low-speed applications such as mining, draglines, construction equipment, agriculture machinery, bulldozers, scrapers, earthmovers, cranes, backhoes, shovels, rollers, tractors, combines and cotton pickers
- Available in:
  - -400 g (14.1 oz.) cartridges, 10/case – Part #GR219C
  - -1 kg (2.2 lb.) tubs – Part #GR219F
  - -16 kg (35.3 lb.) pail – Part #GR219P
  - -55 kg (121.3 lb.) keg – Part #GR219K
  - -180 kg (396.8 lb.) drum – Part #GR219D

Interchange Guide

Mobil Centaur Moly Series™
Ronex Extra Duty Moly™
Fuchs Moreplex 2™
LUBRIPLATE® 3000
Mobilgrease® Moly 52
Petro-Canada Precision Moly EP 2™
Schaeffer Moly Ultra Supreme 238™
Texaco Starplex® Moly MPGM2
Unocal 76 Megaplex™

Timken® Ball Bearing Pillow Block Grease • Part #GR220



- NLGI No. 2 polyurea-thickened grease
- Outstanding long-life, moderately high-temperature lubrication of ball bearings
- Maintains mechanical shear stability
- Provides corrosion resistance, even in the presence of salt water
- Features low-noise characteristics and excellent pumpability
- Does not contain extreme-pressure additives but is inhibited against rust and oxidation
- Operating temperatures from -40° C to 163° C (-40° F to 325° F)
- Applications: Lightly loaded ball bearings in pillow blocks and conveyors that operate in high-temperature environments, including kiln and glasswork applications, electric motors, chemical manufacturing and noise-sensitive environments, ball bearings operating at mid- to high-speeds (10,000 RPM maximum), pumps, fans, electric motors and idler pulleys
- Available in:
  - -400 g (14.1 oz.) cartridges, 10/case – Part #GR220C
  - -1 kg (2.2 lb.) tubs – Part #GR220F
  - -5 kg (11 lb.) pail – Part #GR220G
  - -16 kg (35.3 lb.) pail – Part #GR220P
  - -55 kg (121.3 lb.) keg – Part #GR220K
  - -180 kg (396.8 lb.) drum – Part #GR220D
- NOTE: GR218 has been superceded to GR220.

Interchange Guide

Conoco Phillips Polyurea 2™
Chevron SRI™
Citgo Polyurea 2™
Mobil Polyrex® EM
Mobil Unirex N™
LUBRIPLATE® EM
Petro-Canada EMB™
Shell Dolium® BRB
SKF LGHP2™
Mobil SHC Polyrex 462™

Timken® Food Safe Grease • Part #GR231



- NLGI No. 2 aluminum-complex thickened lubricating grease
- Provides for improved low- and high-temperature performance
- Contains extra-pressure, anti-wear additives and corrosion and oxidation inhibitors
- Operating temperatures from -40° C to 149° C (-40° F to 300° F)
- Applications: Food processing operations with ball bearing pillow blocks
- Available in:
  - -400 g (14.1 oz.) cartridges, 10/case – Part #GR231C
  - -1 kg (2.2 lb.) tubs – Part #GR231F
  - -16 kg (35.3 lb.) pail – Part #GR231P
  - -55 kg (121.3 lb.) keg – Part #GR231K
  - -180 kg (396.8 lb.) drum – Part #GR231D

Interchange Guide

SKF LGFP2™
FAG Arcanol FOOD2™
Keystone Nevastane HT/AW2™
LE 4025 H1 Quinplex™
LPS ThermaPlex Foodlube™
LUBRIPLATE® FGL-2
Mobilgrease® FM 102
Petro-Canada Purity FG™
Royal Purple® Ultra-Performance® Clear FDA Grease

Timken® Synthetic Industrial LC-1.5 Grease • Part #GR232



- NLGI No. 1.5 multi-purpose, lithium-complex lubricating grease
- Contains extreme-pressure and anti-wear additives
- Inhibits corrosion
- Operating temperatures from -46° C to 180° C (-50° F to 356° F)
- Applications: Used in a variety of industrial, construction, agriculture and automotive applications
- Available in:
  - -400 g (14.1 oz.) cartridges, 10/case – Part #GR232C
  - -16 kg (35.3 lb.) pail – Part #GR232P
  - -55 kg (121.3 lb.) keg – Part #GR232K
  - -180 kg (396.8 lb.) drum – Part #GR232D

Interchange Guide

Mobilith SHC™ 460
Chevron Ulti-Plex Synthetic Grease EP™
Exxon Mobil SHC® PM
Texaco Starfak® PM



Trust Timken to keep you rolling forward

Around the world, customers use Timken lubricants for rail bearings, rolling mills, power generation equipment, construction and transportation vehicles, and multiple demanding industrial applications. With more than a century of leadership in developing friction management solutions, Timken is a trusted source for a broad range of bearings – and mechanical power transmission products that help keep your operations performing efficiently and reliably, even in the toughest environments. We use our knowledge to make the world's industries work better.

Timken® Multi-Use Lithium EP1 and EP2 Grease • Part # GR236, GR237



- Fortified with rust and oxidation inhibitors
- Lithium soap thickened grease
- Operating temperatures from -34.4° C to 121.1° C (-30° F to 250° F)
- Used in a variety of applications where extreme pressure is required
- This grease is available in two NLGI grades:
  -Part #GR236-NLGI No. 1, EP1 -Part #GR237-NLGI No. 2, EP2

-400 g (14.1 oz.) cartridges, 10/case	– Part #GR236C	– Part #GR237C
-454 g (1 lb.) tubs, 6/case	– Part #GR236T	– Part #GR237T
-1 kg (2.2 lb.) tubs	– Part #GR236F	– Part #GR237F
-5 kg (11 lb.) pail	– Part #GR236G	– Part #GR237G
-16 kg (35.3 lb.) pail	– Part #GR236P	– Part #GR237P
-55 kg (121.3 lb.) keg	– Part #GR236K	– Part #GR237K
-180 kg (396.8 lb.) drum	– Part #GR236D	– Part #GR237D

Interchange Guide

Castrol Longtime™ PD
Castrol Spheerol EPL
Conoco Phillips
Conolit EP
Dow Molykote® BR2
Exxon Mobil Beacon EP
76® Unoba EP
CITGO Premium
Lithium EP-2
Chevron Multifak® EP
Fina Lithium EP
Chevron Dura-Lith® EP
FAG® Arcanol-MULTI2™
LUBRIPLATE® 1200-2
LUBRIPLATE® 1241, 1242
LUBRIPLATE® 630-AA
SKF® LGMT2
SKF® LGEP2
Shell® Alvania EP
Mobilux® EP

Timken® High-Performance Roller Housed Unit Grease • Part # GR255



- NLGI No. 2, fully synthetic lithium-complex thickened grease
- Contains solid lubricant moly and EP/AW additives
- Excellent EP performance as well as wear-resistance
- Compatible with most industrial materials
- Wide operating temperature range
- Meets NLGI Certification GC-LB
- Applications: Metals, Mining, Power Generation, Lumber, Construction and Off-Highway, Cement, and Heavy Industries.

-400 g (14.1 oz.) cartridges, 10/case	– Part #GR255C
-454 g (1 lb.) tubs, 6/case	– Part #GR255T
-16 kg (35.3 lb.) pail	– Part #GR255P
-55 kg (121.3 lb.) keg	– Part #GR255K
-180 kg (396.8 lb.) drum	– Part #GR255D

Interchange Guide

Molycote® G4700
Mobilith SHC series
Mobilgrease XHP series
Shell Gadus S3 V460D
Shell Gadus S3 V220C
Chevron Ulti-Plex Synthetic Grease EP™

How do Timken lubricants measure up?

The American Society for the Testing of Materials (ASTM) established standards for the testing of lubricating greases. This table displays the typical range of test results reported by the lubricant companies for each test and ranks them as good, better or best, compared with the corresponding Timken grease characteristics.

Grease	Test	Good	Better	Best	Timken
Timken Mill Grease	Mobility, US Steel, 0° F, gms/sec	0.04	0.08	>0.12	0.12
	Rust Prevention, ASTM D6138, 10% Seawater, Rating	1	0.5	0	0
	Salt Fog, ASTM B117, hrs.	1,000	1,500	>2000	2,500
	Water Sprayoff, ASTM D4049, % loss	20	15	<10	9
	Water Washout, ASTM D1264, 175° F, % loss	10	5	2	2.75
	Timken OK Load, ASTM D2509, lbs.	40, 45	50, 55	>60	60
Timken Premium All Purpose Industrial LC-2 Grease	Four Ball Wear, ASTM D2266, 40 kg, 167° F, scar mm	0.8	0.6, 0.7	0.4, 0.5	0.6
	Four Ball Weld, ASTM D2596, kg	250	285	>315	285
	Timken OK Load, ASTM D2509, lbs.	40, 45	50, 55	>60	55
Timken Construction and Off-Highway Grease	Wheel Bearing Leakage, ASTM D1263, 300° F, g	8	5	<1.0	0.4
	Rust Prevention, ASTM D6138, 10% Seawater, Rating	1	0.5	0	0.1
	Four Ball Weld, ASTM D2596, kg	250	285	>315	620
	Four Ball Wear, ASTM D2266, 40 kg, 167° F, scar mm	0.8	0.6	0.45	0.45
	Timken OK Load ASTM D2509, lbs.	40, 45	50, 55	>60	65
	Operating Temperature Limit, ° F	300	350	400	400
Timken Ball Bearing Pillow Block Grease	Wheel Bearing Life, ASTM D3336, hrs@350° F	250	500	>750	750
	Water Washout, ASTM D1264, 175° F, % loss	10	5	2	2
	Rust Prevention, ASTM D6138, 10% Seawater, Rating	1	0.5	0	0
Timken Food Safe Grease	Four Ball Wear, ASTM D2266, 40 kg, 167° F, scar mm	0.8	0.6, 0.7	0.4, 0.5	0.6
	Four Ball Weld, ASTM D2596, kg	250	285	>315	315
	Water Washout, ASTM D1264, 175° F, % loss	10	5	2	5
Timken Synthetic Industrial LC-1.5 Grease	Four Ball Wear, ASTM D2266, 40 kg, 167° F, scar mm	0.8	0.6, 0.7	0.4, 0.5	0.6
	Four Ball Weld, ASTM D2596, kg	250	285	>315	285
	Timken OK Load, ASTM D2509, lbs.	40, 45	50, 55	>60	55
Timken Multi-Use Lithium EP1 and EP2 Grease	Four Ball Wear, ASTM D2266, 40 kg, 167° F, scar mm	0.8	0.6, 0.7	0.4, 0.5	0.45
	Water Washout, ASTM D1264, 175° F, % loss	10	5	2	5
Timken High-Performance Roller Housed Unit Grease	Four Ball Weld, ASTM D2266, 40 kg, 167° F, scar mm	0.8	0.65	0.45	0.4
	Four Ball Weld, ASTM D2596, kg	250	285	>300	500

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TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related power transmission rebuild and repair services.

Stronger. By Design.

www.timken.com

Grasa lubricante automotriz

TIMKEN

Presente en todo movimiento

Grasas Timken® para rodamientos de ruedas automotrices de vehículos ligeros y pesados.

La grasa Timken para rodamientos de ruedas automotrices ha sido desarrollada aprovechando nuestros amplios conocimientos de tribología - estudio de la fricción, lubricación e interacción de las superficies.

La adecuada lubricación de las partes en movimiento es crítica para su desempeño. El lubricante disipa el calor, reduce el desgaste y la fricción, minimiza los problemas de contaminación y protege las superficies del rodamiento de la corrosión. Para lograr el máximo desempeño, la selección adecuada del lubricante y las prácticas correctas de lubricación deben ir mano a mano con el diseño del rodamiento y el conocimiento de sus condiciones de operación.

Grasas y rodamientos Timken, doble garantía en calidad y desempeño.

Características

- Elaboradas con espesante de Complejo de Litio y aditivos de extrema presión (EP).
- Disponibles en dos grados de consistencia NLGI 2 y NLGI 3.

Ventajas

- El espesante de Complejo de Litio, los aditivos de extrema presión (EP), y los aditivos antidesgaste e inhibidores de corrosión extienden la vida de los rodamientos y alargan los períodos de re-engrasado.
- Las grasas Timken tienen excelente estabilidad estructural y resistencia al lavado por agua.
- Son totalmente compatibles con el hule de los retenes.
- 60ºC más de resistencia comparadas con grasas con espesante de Litio simple.
- Ofrecen al rodamiento, mayor rango de protección en caso de calentamiento extremo (causado por frenado prolongado y/o frecuente).
- Debido a la viscosidad de su aceite base, la grasa Timken automotriz favorece el ahorro de combustible, en comparación con otras grasas en el mercado.
- Ideal para su uso en climas cálidos.

GRT2
Consistencia NLGI2 - Ideal para mantenimiento especializado.

GRT3
Consistencia NLGI3 - Perfecta para la lubricación manual.



Presentaciones de las Grasas Automotrices Timken®

Grasa GRT2	Grasa GRT3		
Número de parte	**Número de Parte**	**Presentación**	**Contenido**
GRT2A	GRT3A	Bote	500 g
GRT2AA	GRT3AA	Caja con 24 botes	12 Kg
GRT2B	GRT3B	Bote	1 kg
GRT2BB	GRT3BB	Caja con 12 botes	12 Kg
GRT2C	GRT3C	Tina	3.6 Kg
GRT2CC	GRT3CC	Caja con 4 tinas	14.40 Kg
GRT2D	GRT3D	Cubeta	16 Kg
GRT2E	GRT3E	Tambo	180 Kg

Todas las presentaciones se encuentran disponibles con nuestros distribuidores autorizados.

Pruebas	Método ASTM	Especificaciones	
		GRT2	GRT3
Grado NLGI	D-217	2	3
Tipo jabón base	D-128	Complejo de Litio	Complejo de Litio
Color	Visual	Ámbar	Ámbar
Apariencia (textura)	Visual	Fibrosa	Fibrosa
Penetración trabajada a 60 golpes 1/100 mm 25ºC	D-217	265-295	220-250
Estabilidad mecánica % de pérdida	D-217	10 (máximo)	10 (máximo)
Punto de goteo ºC	D-2265	240ºC	240ºC
Lavado por agua a 80ºC de pérdida	D-1264	10 (máximo)	10 (máximo)
Separación de aceite (sangrado) %	FTM79lb 321.3	6 (máximo)	6 (máximo)
Prueba de resistencia a la herrumbe o corrosión	D-1743	Pasa	Pasa
Viscosidad del aceite base a 40ºC cSt	D-445	220 (típico)	220 (típico)
Índice de viscosidad del aceite base	D-2270	85 (mínimo)	85 (mínimo)

Beneficios de las grasas lubricantes para rodamientos de ruedas automotrices de Timken

- La viscosidad de su aceite favorece el ahorro de combustible del vehículo debido al óptimo espesor de la película generada.
- Gracias al Complejo de Litio tienen un período mayor de vida y no dañan al rodamiento en condiciones de duración extrema.
- Las grasas con Complejo de Litio son más compatibles con otras grasas en comparación con aquellas que tienen bentona.

Como expertos en rodamientos y tribología, Timken no recomienda el uso de grasas con bentona.

Para mayor información acerca de los lubricantes Timken visite www.timken.com o contacte a su representante de ventas Timken más cercano.

• Oficina Boca Ratón
Tel: (561) 393-8990

• Oficina México
Tel: 01800-088-6595
mex-contacto@timken.com

TIMKEN
Where You Turn

Rodamientos • Acero • Componentes de precisión • Lubricantes • Retenes • Remanufactura y reparación Servicios Industriales •

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TIMKEN

MOUNTED BEARING PRODUCT LINE LUBRICATION GREASE SUGGESTIONS

		Suggested Grease
 **Mounted Split Cylindrical Roller Bearings**		**GR255** High-Performance Mounted Roller Bearing Grease *or* **GR217** Premium All-Purpose LC-2 Grease[1]
 **SNT Split Plummer Blocks**		**GR255** High-Performance Mounted Roller Bearing Grease *or* **GR217** Premium All-Purpose LC-2 Grease[1]
 **SAF Split Pillow Blocks**		**GR255** High-Performance Mounted Roller Bearing Grease *or* **GR217** Premium All-Purpose LC-2 Grease[1]
 **Solid Block Mounted Spherical Roller Bearings**		**GR255** High-Performance Mounted Roller Bearing Grease
 **Type E Mounted Tapered Roller Bearings**		**GR217** Premium All-Purpose LC-2 Grease
 **Fafnir® Mounted Ball Bearings**	All Fafnir® Mounted Ball Bearings (except Survivor Series)	**GR220** Ball Bearing Pillow Block Grease
	All Survivor Series PT, NT, PS	**GR231** Food-Safe Grease
 **UC-Series Mounted Ball Bearings**[2]		**GR237** Multi-Use Lithium EP2 Grease

[1]These two greases are acceptable for many standard applications and common uses.
[2]Available outside the U.S. only.
Contact your Timken sales engineer for recommendations on non-standard applications.

TIMKEN® GREASES FOR MOUNTED BEARINGS

Grease	Environment	Application	Benefits	Available in:	Interchange Guide	
GR217 Premium All-Purpose LC-2 Grease	High Wear, Moderate Loads, Moderate Speeds, Moderate Temperatures	Agriculture, Bushings/Ball Joints, Truck and Auto Wheel Bearings, Heavy-Duty Industrial	• NLGI No. 2 extreme pressure, lithium-complex thickened grease • Solid protection against rust and corrosion • Excellent protection against wear • Operating temperature range of -40° C to 149° C (-40° F to 300° F) • Applications: Ideal for industrial bearings operating at higher-than-average temperatures and/or subjected to shock loading, as well as heavy-duty on- and off-road applications, wheel bearings, axles, ball joints, U joints, power takeoffs, king pins, bushings, trucks, buses and automobiles	400 g (14.1 oz.) cartridges, 10/case – Part #GR217C 454 g (1 lb.) tubs, 6/case – Part #GR217T 15.8 kg (35 lb.) pail – Part #GR217P 54.4 kg (120 lb.) keg – Part #GR217K 181.4 kg (400 lb.) drum – Part #GR217D	• 76 Multiplex Red • Castrol 4020/220-2™ • Chevron Delo® EP 2 • Citgo Lithoplex MP2™ • Citgo Premium Lithium EP 2™ • FAG LOAD220™ • Fuchs (Century) Uniwrl 2™ • Lubrication Engineers Almagard® 3752 • LUBRIPLATE® 1552	• Mobilgrease® XHP 222 • Pennzoil® Premium Lithium Complex 2 • Petro-Canada Multipurpose EP 2™ • Ronex MP™ • Royal Purple® Ultra-Performance® 2 • SKF LGEP2™ • SKF LGWA2™ • Texaco Starplex® 2 • Unirex EP 2™
GR220 Ball Bearing Pillow Block Grease	Wet and Corrosive Conditions, Quiet Environments, Light Loads, Moderate-to-High Speeds, High Temperatures	Lightly Loaded Pillow Blocks, Idler Pulleys, Oven Conveyors, Electric Motors, Fans, Pumps	• NLGI No. 2 polyurea-thickened grease • Outstanding long life, moderately high-temperature lubrication of ball bearings • Maintains mechanical shear stability • Provides corrosion resistance, even in the presence of salt water • Features low-noise characteristics and excellent pumpability • Does not contain extreme-pressure additives but is inhibited against rust and oxidation • Operating temperatures from -40° C to 163° C (-40° F to 325° F) • Applications: Lightly loaded ball bearings in pillow blocks and conveyors that operate in high-temperature environments, including kiln and glasswork applications, electric motors, chemical manufacturing and noise-sensitive environments, ball bearings operating at mid-to-high speeds (10,000 RPM maximum), pumps, fans, electric motors and idler pulleys	400 g (14.1 oz.) cartridges, 10/case – Part #GR220C 15.8 kg (35 lb.) pail – Part #GR220P 54.4 kg (120 lb.) keg – Part #GR220K 181.4 kg (400 lb.) drum – Part #GR220D	• FAG Arcanol FOOD2™ • FDA Grease • Keystone Nevastane HT/AW2™ • LE 4025 H1 Quinplex™ • LPS ThermaPlex Foodlube™	• LUBRIPLATE® FGL-2 • Mobilgrease® FM 102 • Petro-Canada Purity FG™ • Royal Purple® Ultra-Performance® Clear • SKF LGFP2™
GR231 Food-Safe Grease	Incidental Food Contact, Moderate Temperatures, Moderate-to-High Speeds, Medium Loads	Food and Beverage Industries, Pharmaceuticals (only for ball bearing applications)	• NLGI No. 2 aluminum-complex thickened lubricating grease • Provides for improved low- and high-temperature performance • Contains extra-pressure, anti-wear additives and corrosion and oxidation inhibitors • Operating temperatures from -40° C to 149° C (-40° F to 300° F) • Applications: Food processing operations with ball bearing pillow blocks	400 g (14.1 oz.) cartridges, 10/case – Part #GR231C 16 kg (35.3 lb.) pail – Part #GR231P 54.4 kg (120 lb.) keg – Part #GR231K	• FAG Arcanol FOOD2™ • FDA Grease • Keystone Nevastane HT/AW2™ • LE 4025 H1 Quinplex™ • LPS ThermaPlex Foodlube™	• LUBRIPLATE® FGL-2 • Mobilgrease® FM 102 • Petro-Canada Purity FG™ • Royal Purple® Ultra-Performance® Clear • SKF LGFP2™
GR237 Multi-Use Lithium EP2 Grease	Moderate Speeds, Light-to-Moderate Loads, Moderate Temperatures, Moderate Water	General Industrial Applications, Pins and Bushings, Track Rollers, Water Pumps, Plain and Antifriction Bearings	• Fortified with rust and oxidation inhibitors • Lithium-soap thickened grease • Operating temperatures from -34.4° C to 121.1° C (-30° F to 250° F) • Applications: in a variety of applications where extreme pressure is required	400 g (14.1 oz.) cartridges, 10/case – Part #GR237C 15.8 kg (35 lb.) pail – Part #GR237P 54.4 kg (120 lb.) keg – Part #GR237K 181.4 kg (400 lb.) drum – Part #GR237D	• 76® Unoba EP • Castrol Longtime™ PD • Castrol Spheerol EPL • Chevron Dura-Lith® EP • Chevron Multifak® EP • CITGO Premium • Conoco Phillips • Conolit EP • Dow Molykote® BR2 • Exxon Mobil Beacon EP	• FAG® Arcanol-MULTI2™ • Fina Lithium EP • Lithium EP-2 • LUBRIPLATE® 1200-2 • LUBRIPLATE® 1241, 1242 • LUBRIPLATE® 630-AA • Mobiluxv EP • Shell® Alvania EP • SKF® LGEP2 • SKF® LGMT2
GR255 High-Performance Mounted Roller Bearing Grease	Extreme Loads, High Wear, Moderate Speeds, High Temperatures, Shock Loading	Metals, Mining, Aggregate, Power Generation, Material Handling and Heavy Industries	• NLGI No. 2, fully synthetic lithium-complex thickened grease • Contains solid lubricant moly and EP/AW additives • Excellent EP performance as well as wear resistance • Compatible with most industrial materials • Operating temperatures from -40° C to 180° C (-40° F to 356° F) • Meets NLGI Certification GC-LB • Applications: Metals, Mining, Power Generation, Lumber, Construction and Off-Highway, Cement and Heavy Industries	400 g (14.1 oz.) cartridges, 10/case – Part #GR255C 15.8 kg (35 lb.) pail – Part #GR255P 181.4 kg (400 lb.) drum – Part #GR255D	• Chevron Ulti-Plex Synthetic Grease EP™ • Mobilgrease XHP series • Mobilith SHC series	• Molycote® G4700 • Shell Gadus S3 V220C • Shell Gadus S3 V460D

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.

Stronger. By Design.

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Grease Interchange Guide

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Timken Premium All Purpose Industrial LC-2 Grease

- Castrol 4020/220-2™
- Castrol 8060/220-2™
- Chevron Delo® EP 2
- Chevron RPM Automotive LC Grease EP-2™
- Citgo Lithoplex MP2™
- Citgo Premium Lithium EP 2™
- Conoco Phillips Super-STA® 2
- Exxon Mobil Ronex MP™
- Exxon Mobil Unirex EP 2™
- FAG LOAD220™
- Fuchs (Century) Uniwrl 2™
- Lubrication Engineers Almagard® 3752
- LUBRIPLATE® 1552
- Mobilgrease® XHP 222
- Pennzoil® Pennlith® EP 712
- Pennzoil® Premium Lithium Complex 2
- Petro-Canada Multipurpose EP 2™
- Royal Purple® Ultra-Performance® 2
- Shell Albida® LC 2
- Shell Retinax® LC 2
- SKF LGWA2™
- SKF LGEP2™
- Texaco Starplex® 2
- Unocal 76 Multiplex Red™

Timken Construction and Off-Highway Grease

- Castrol Moly 860-2ES™
- Castrol Contractor Grease 2™
- Conoco Phillips Super Lube M EP™
- D.A. Stuart Molyplex EP 2™
- Exxon Mobil Centaur Moly
- Exxon Mobil Ronex Extra Duty Moly™
- Fuchs Moreplex 2™
- LUBRIPLATE® 3000
- Mobilgrease® Moly 52
- Mystik® Tetrimoly® Extreme
- Pennzoil® Multipurpose EP 302
- Pennzoil® Premium Lithium Complex 2 with Moly
- Petro-Canada Precision Moly EP 2™
- Schaeffer Moly Ultra Supreme 238™
- Shell Retinax CMX 2™
- Texaco Starplex® Moly MPGM2
- Unocal 76 Megaplex™

Timken Ball Bearing Pillow Block Grease

- Conoco Phillips Polyurea 2™
- Chevron SRI™
- Citgo Polyurea 2™
- Citgo Polyurea MP2™
- Conoco Phillips Polyurea 2™
- Exxon Mobil Polyrex® EM
- Exxon Mobil Unirex N™
- LUBRIPLATE® EM
- Mobilgrease® AW2
- Petro-Canada EMB™
- Shell Alvania RL3™
- Shell Dolium® BRB
- SKF LGHP2™
- Unocal 76 Unolife Grease™

Timken Mill Grease

- Castrol Molub-Alloy 777-2ES™
- Chem & Lube Black Magic™
- Chevron Ulti-Plex EP 2™
- Conoco Phillips HD Calcium™
- Conoco Phillips Milube™
- Exxon Mobil Ronex Extra Duty 2™
- FAG Arcanol Load 400™
- Kyodo Yushi Palmax RBG™
- Loctite ViperLube™
- LUBRIPLATE® 1444
- Shell Retinax® Grease HD
- SKF LGHB2™

Timken Food Safe Grease

- SKF LGFP2™
- FAG Arcanol FOOD2™
- Keystone Nevastane HT/AW2™
- LE 4025 H1 Quinplex™
- LPS ThermaPlex Foodlube ™
- LUBRIPLATE® FGL-2
- Mobilgrease® FM 102
- Petro-Canada Purity FG™
- Royal Purple® Ultra-Performance® Clear FDA Grease

Timken Synthetic Industrial LC-1.5 Grease

- Mobilith SHC™ 460
- Chevron Ulti-Plex Synthetic Grease EP™
- Conoco Phillips SynCon Extra Long Life™
- Exxon Mobil SHC® PM
- Shell Albida® 460
- Texaco Starfak® PM

Timken Ultra-High Speed Spindle Grease

- Kluberspeed BF 72-22™
- FAG Arcanol L-75™
- FAG Arcanol Speed 2,6™
- LubCon Highspeed L252™
- SKF LGCT2™

Timken Multi-Use Lithium EP1 and EP2 Grease

- Castrol Longtime™ PD
- Castrol Spheerol EPL
- Conoco Phillips Conolith EP
- Dow Molykote® BR2
- Exxon Mobil Beacon EP
- 76® Unoba EP
- CITGO Premium Lithium EP-2
- Chevron Multifak® EP
- Fina Lithium EP
- Chevron Dura-Lith® EP
- FAG® Arcanol-MULTI2™
- LUBRIPLATE® 1200-2
- LUBRIPLATE® 1241, 1242
- LUBRIPLATE® 630-AA
- SKF® LGMT2
- SKF® LGEP2
- Shell® Alvania EP
- Mobilux® EP



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WARNING ***Failure to observe the following warnings could create a risk of serious injury.***

Proper maintenance and handling practices are critical. Failure to follow installation instructions and to maintain proper lubrication can result in equipment failure, creating a risk of serious bodily harm.

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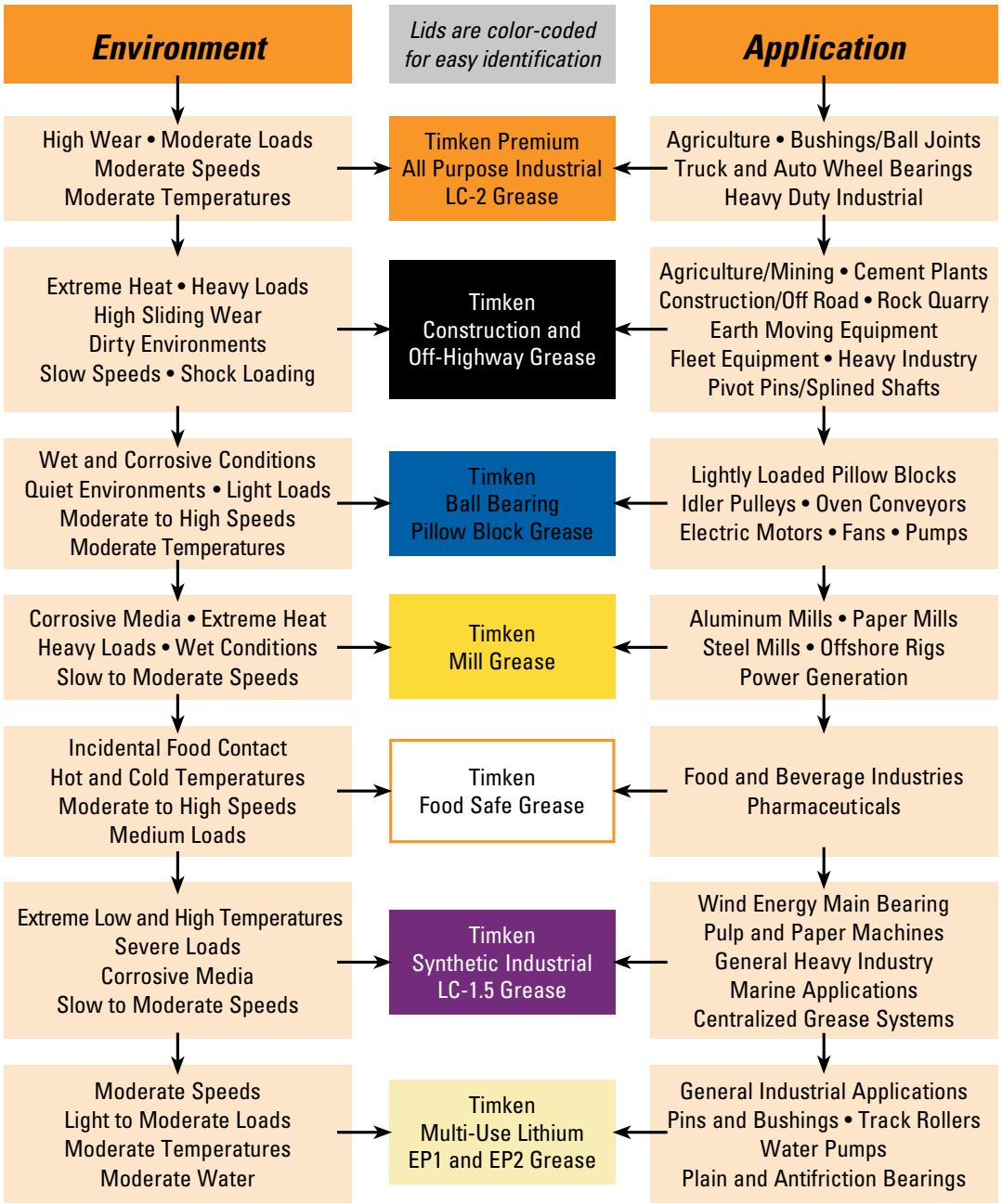
Lubrication Selection Guide

TIMKEN
Where You Turn

The Timken Company, a global leader in bearing and steel technology, understands the importance of friction management. The Timken line of application- and environment-specific lubricants have been developed by leveraging our knowledge of tribology and anti-friction bearings and how these two elements affect overall system performance.

Timken lubricants help bearings and related components operate effectively in demanding industrial operations.

For more information on Timken lubricants, contact your authorized Timken distributor or sales representative or visit www.timken.com.



This selection guide is not intended to replace specific recommendations by the equipment builder who is responsible for its performance.

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