

TIMKEN

Where You Turn

Timken Lubricants



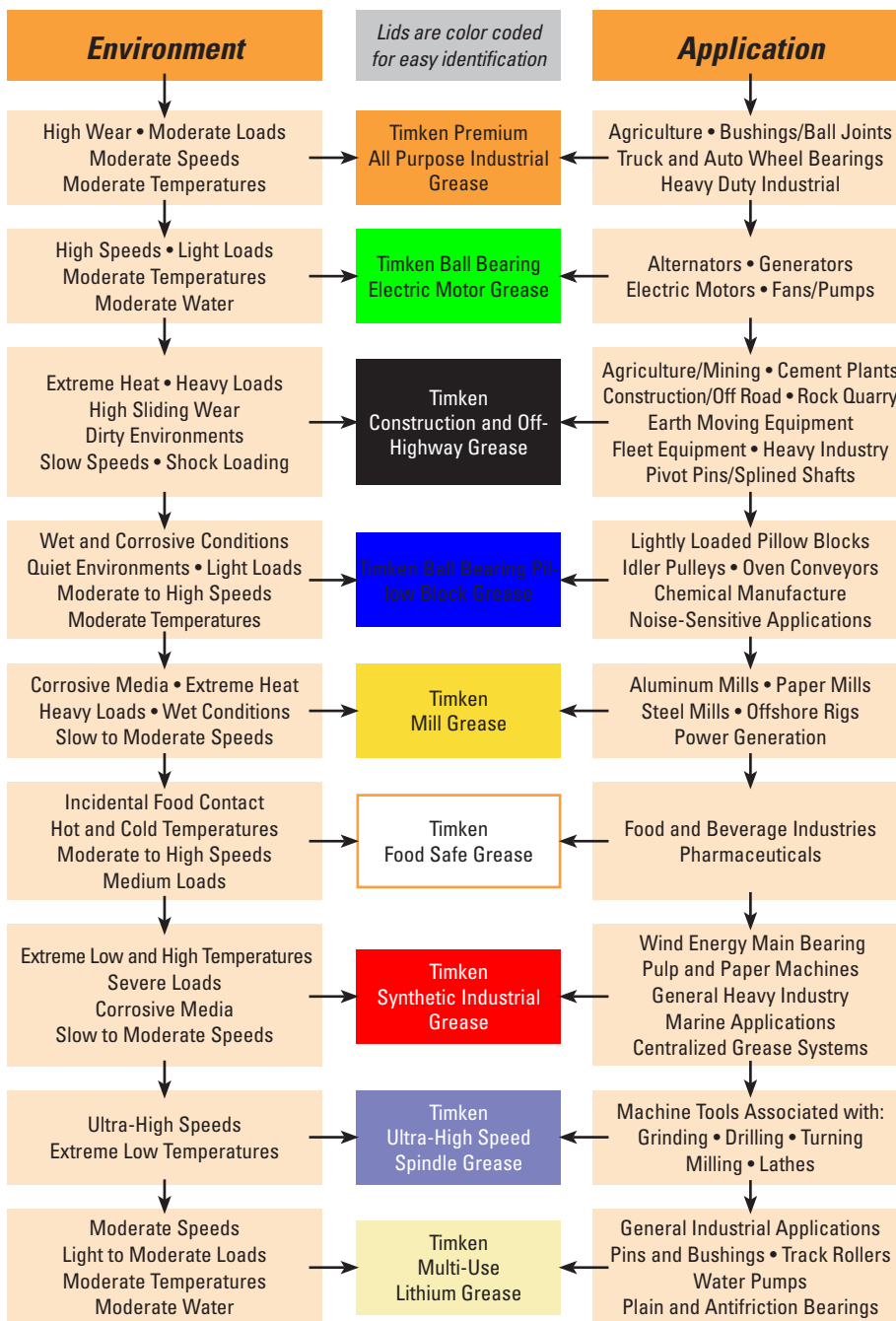
*Friction management solutionsSM
to keep systems
running smoothly*



Helping customers enhance system performance

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. High-temperature, anti-wear and water-resistant additives offer superior protection in challenging environments.

Similar to our bearings, all Timken lubrication products are backed by highly trained customer service and technical support. Industrial customers turn to Timken for comprehensive friction management solutions, which extend beyond bearings to include delivery systems, lubrication, condition monitoring systems, training and bearing repair services. We help customers analyze performance and recommend options that make sense for their unique operating conditions and maintenance intervals.



A single source, many lubrication options

The nine primary lines of Timken lubricants compliment our G-Power and M-Power single-point lubricators and C-Power centralized multi-point lubricators and our global offering of lubrication products. G-Power, M-Power and C-Power units consistently distribute grease into machine operations. These canisters can be filled with Timken lubricants or many other types of commercial lubricants and mounted into place with a full line of Timken accessories.

Around the world, customers use Timken lubricants for rail bearings, rolling mills, power generation equipment, construction and transportation vehicles, and other 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 products that help keep all bearings and related components running smoothly.



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

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



Timken Premium All Purpose Industrial Grease

- NLGI No. 2 extreme pressure, lithium-complex thickened grease
- Solid protection against rust and corrosion
- Excellent protection against wear
- Operating temperature range of -40P F to 300P F (-40P C to 149P C)
- 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: -14-oz. cartridges, 10/case – Part #GR217C
-One-pound tubs, 6/case – Part #GR217T
-35-pound pails – Part #GR217P
-120-pound kegs – Part #GR217K
-400-pound drums – Part #GR217D
-Blister packs, 6 tubs/case – Part #GR217S



Timken Ball Bearing Electric Motor Grease

- NLGI No. 2 polyurea-thickened grease
- Protects against rust and corrosion and maintains excellent oxidation stability
- Operating temperature range of -40P F to 325P F (-40P C to 163P C)
- Applications: Ball bearings operating at mid- to high-speeds (10,000 RPM maximum), pumps, fans, electric motor bearings and idler pulleys
- Available in: -14-oz. cartridges, 10/case – Part #GR218C
-35-pound pails – Part #GR218P
-120-pound kegs – Part #GR218K
-400-pound drums – Part #GR218D



Timken Construction and Off-Highway Grease

- NLGI No. 2 calcium sulfonate grease with 5 percent moly
- Provides resistance to extreme pressures caused by shock loading
- Protects against rust and corrosion
- Offers excellent high-temperature properties
- Operating temperatures of -40P F to 400P F (-40P C to 204P C)
- 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: -14-oz. cartridges, 10/case – Part #GR219C
-35-pound pails – Part #GR219P
-120-pound kegs – Part #GR219K
-400-pound drums – Part #GR219D



Timken Ball Bearing Pillow Block Grease

- 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 -40P F to 325P F (-40P C to 163P C)
- 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
- Available in: -14-oz. cartridges, 10/case – Part #GR220C
-35-pound pails – Part #GR220P
-120-pound kegs – Part #GR220K
-400-pound drums – Part #GR220D



Timken Mill Grease

- Unsurpassed resistance to water washout
- Calcium sulfonate grease
- Superior protection against rust and corrosion, including salt spray
- Excellent high-temperature properties
- Timken Mill Grease is formulated with high VI paraffinic mineral oil, resulting in better oxidation stability than Black Magic™ formulated with low VI naphthenic base oil
- Operating temperatures from -40° F to 400° F (-40° C to 204° C)
- 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
- Available in: -14-oz. cartridges, 10/case (only available in NLGI No. 1 and NLGI No. 2)
-35-pound pails
-120-pound kegs
-400-pound drums
-Bulk quantities available. Contact your Timken representative.



Timken Food Safe Grease

- 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° F to 300° F (-40° C to 149° C)
- Applications: Food processing operations
- Available in: -14-oz. cartridges, 10/case – Part #GR231C
-35-pound pails – Part #GR231P
-120-pound kegs – Part #GR231K
-400-pound drums – Part #GR231D



Timken Synthetic Industrial Grease

- NLGI No. 1.5 multi-purpose, lithium-complex lubricating grease
- Contains extreme-pressure and anti-wear additives
- Inhibits corrosion
- Operating temperatures from -50° F to 356° F (-46° C to 180° C)
- Applications: Used in a variety of industrial, construction, agriculture and automotive applications
- Available in: -14-oz. cartridges, 10/case – Part #GR232C
-35-pound pails – Part #GR232P
-120-pound kegs – Part #GR232K
-400-pound drums – Part #GR232D



Timken Ultra-High Speed Spindle Grease

- NLGI No. 2 polyurea-thickened grease
- Inhibits rust and oxidation
- Operating temperatures from -65° F to 300° F (-54° C to 149° C)
- Specifically designed for ball bearings
- Applications: Drills, grinders, lathes, milling machines and other long-life applications
- Available in: -14-oz. cartridges, 10/case – Part #GR233C
-35-pound pails – Part #GR233P
-Syringe, 6/case – Part #GR233SYR



Timken Multi-Use Lithium Grease

- Fortified with rust and oxidation inhibitors
- Lithium soap thickened grease
- Operating temperatures from -30° F to 250° F (-34.4° C to 121.1° C)
- Used in a variety of applications where extreme pressure is not required
- This grease is available in two NLGI grades: -Part #GR236-NLGI No. 1
-Part #GR237-NLGI No. 2
- Available in: -14-oz. cartridge, 10/case
-One-pound tubs, 6/case
-35-pound pails
-120-pound kegs
-400-pound drums

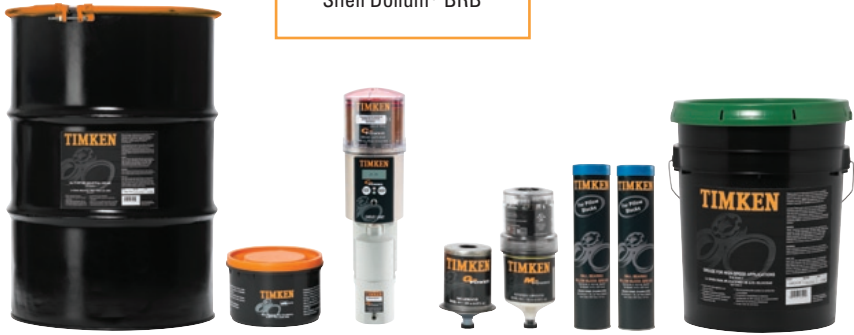
The American Society for the Testing of Materials (ASTM) has established standards for the testing of lubricating greases. This table has taken the typical range of test results reported by the lubricant companies for each test and ranked them into a good, better, best order.

Grease	Test	Good	Better	Best	Timken
Timken Premium All Purpose Industrial 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 Ball Bearing Electric Motor Grease	Economical Ball Bearing Grease				
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, %	10	5	2	2
	Rust Prevention, ASTM D6138, 10% Seawater, Rating	1	0.5	0	0
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 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, %	10	5	2	5
Timken Synthetic Industrial 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 Ultra-High Speed Spindle Grease	Wheel Bearing Life, ASTM D3336, hrs@300° F	1500	1750	2000	2000+
	Pour Point, ASTM D97, ° F, Max.	-45	-55	-60	-65
Timken Multi-Use Lithium Grease	Economical Multi-Use Grease				

Timken Grease Interchange Guide

<p>Timken Premium All Purpose Industrial Grease</p> <p>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 Super-STA® 2 Exxon Ronex MP™ Exxon Unirex EP 2™ FAG LOAD220™ Fuchs (Century) Uniwr1 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 Unical 76 Multiplex Red™</p>	<p>Timken Construction and Off-Highway Grease</p> <p>Castrol Moly 860-2ES™ Castrol Contractor Grease 2™ Conoco Superlube M EP™ D.A. Stuart Molyplex EP 2™ Exxon Centaur Moly™ Exxon Ronex Extra Duty Moly™ Fuchs Moreplex 2™ Lubriplate® 3000 Mobilgrease® Moly 52 Mystik® Tetrिमoly® 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 MPM2 Unical 76 Megaplex™</p>	<p>Timken Ball Bearing Pillow Block Grease</p> <p>Citgo Polyurea MP2™ Conoco Polyurea 2™ Exxon Polyrex® EM Exxon Unirex N™ Mobilgrease® AW2 Shell Alvania RL3™ SKF LGHP2™ Unocal 76 Unolife Grease™</p>	<p>Timken Food Safe Grease</p> <p>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</p>	<p>Timken Ultra-High Speed Spindle Grease</p> <p>Kluberspeed BF 72-22™ FAG Arcanol L-75™ FAG Arcanol Speed 2,6™ LubCon Highspeed L252™ SKF LGCT2™</p>
	<p>Timken Ball Bearing Electric Motor Grease</p> <p>Conoco Polyurea 2™ Chevron SRI™ Citgo Polyurea 2™ Lubriplate® EM Petro-Canada EMB™ Shell Dolium® BRB</p>	<p>Timken Mill Grease</p> <p>Castrol Moluballoy 777-2ES™ Chem & Lube Black Magic™ Chevron Ultiplex EP 2™ Conoco HD Calcium™ Conoco Milube™ Exxon Ronex Extra Duty 2™ FAG Arcanol Load 400™ Kyodo Yushi Palmox RBG™ Loctite ViperLube™ Lubriplate® 1444 Shell Retinax® Grease HD SKF LGHB2™</p>	<p>Timken Synthetic Industrial Grease</p> <p>Mobilith SHC™ 460 Chevron Ultiplex Synthetic Grease EP™ Conoco SynCon Extra Long Life™ Mobil SHC® PM Shell Albida® 460 Texaco Starfak® PM</p>	<p>Timken Multi-Use Lithium Grease</p> <p>Castrol Longtime PD™ FAG Arcanol MULTI2™ Lubriplate® 1200-2 Lubriplate® 1241, 1242 Lubriplate® 630-AA Mystik® Power Red Lithium C SKF LGMT2™</p>

WARNING
 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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Conmutador: +52(55) 5305-1320
 Fax: +52(55) 5305-1326
 Nextel ID: 52*40085*2
 Lada sin Costo México: 01800 552 9428
 mail: ventas@rodamientos-samper.com.mx

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