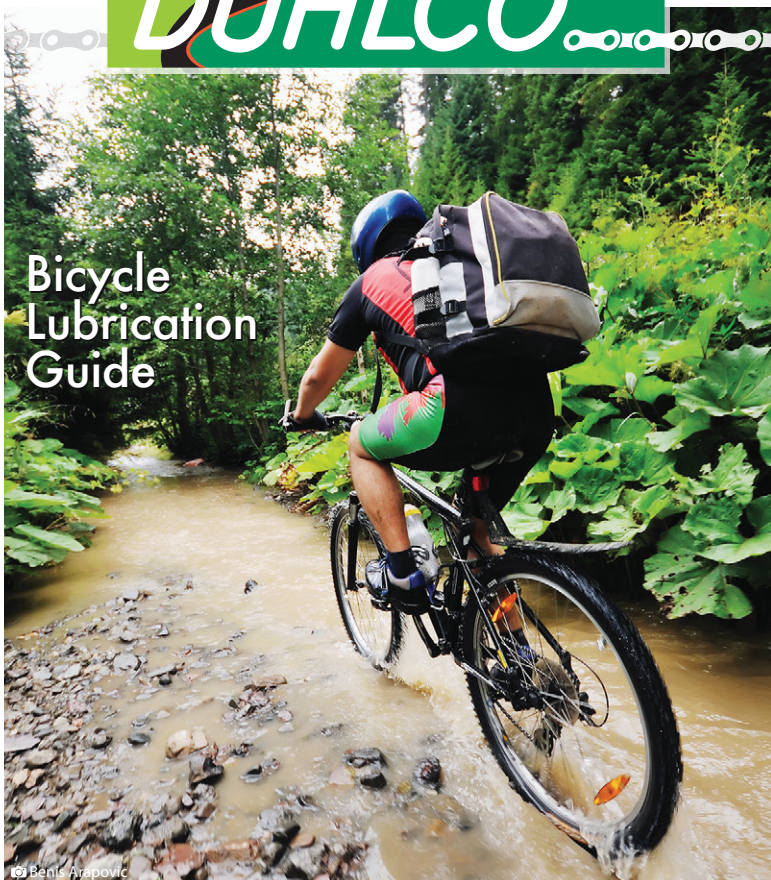


DUALCO™

Bicycle Lubrication Guide



© Benis Arapovic





Lubrication Essentials

Keeping your bicycle well lubricated will greatly extend its life and dramatically enhance your riding experience. Regular maintenance and lubrication carries you and your bike farther, faster and safer.

Bearing Grease

Dualco offers two high grade bearing greases to meet the demands of both road and mountain bike enthusiasts. These state of the art lubricants are **True High-Load** greases, and are fully compatible with steel and ceramic bearing systems.

More than Grease...

DUALCO bearing greases will not separate during long term storage*. These products meet the highest ASTM standards for Extreme Pressure, Lubricity, Corrosion Resistance and Water Wash-Out Testing.

RED High Performance Bearing Grease™

is an extremely water resistant non-drying lithium formulation with extreme pressure and anti-corrosion additives. This is a fast multi-purpose lubricant, providing solid anti-wear protection.

Temperature Range	-5° to 240°F
Timken OK Load, ASTM D 2509	lb: 45
Four-Ball Load Wear Index, ASTM D 2596	35
Rust Prevention, ASTM D 1743, rating	Pass

BLUE Extreme Duty Bearing Grease™

is a waterproof synthetic formulation with extreme pressure and anti-corrosion additives. This lubricant will protect under the most extreme conditions, reducing friction at high & low temperatures.

Temperature Range	-65° to 375°F
Timken OK Load, ASTM D 2509	lb: 65
Four-Ball Load Wear Index, ASTM D 2596	315
Rust Prevention, ASTM D 1743, rating	Pass

Well Suited For Salt-Air Environments

- Designed to work with our Squeeze Tube Grease Guns. Tube thread size: 9/16-18 NF(m)

Tips

- Use bearing grease to lubricate ball bearings and races in wheel hubs, pedals, headset, and bottom brackets. This reduces friction and wear adding speed to your ride and extending component life.
- Lubricant life is usually determined by dirt contamination and is highly variable. Inspect your bearings regularly and rebuild before contaminants build up. Detecting problems early increases bearing life and performance.

* For best results always store lubricants at room temperature. Available in 4 - ounce Tubes. Other container sizes available upon request.



Contains No Zinc or Heavy Metals



Superlative Lubrication

DUALCO products are engineered to exacting tolerances and meet the highest ASTM standards for Extreme Pressure, Lubricity and Corrosion Resistance. Our products are designed from the ground up to provide bicycle specific solutions.

© Nika Lerman

Anti-Seize

Advanced Lube Compound™ is a High Temperature, Waterproof, non-drying, Aluminum/Graphite formulation. Protects threaded & press-fit assemblies from galling, rust, galvanic corrosion and cold welding in metal to metal applications.

Temperature Range	-20° to 2200°F
Dropping Point	None
Copper Free • Alloy Component Friendly	
Lead Free • Environmentally Friendly	

Seat Post & Stem

Apply a thin layer of Anti-Seize to your seat post where it contacts the frame. This will prevent galling and corrosion; making future adjustments a snap. We do not recommend bearing grease for seat posts because it can increase the required bolt tension, increasing the chance of frame damage. Both Threadless and Quill Stems need a thin film of Anti-Seize where they contact the steerer tubes.

Bottom Bracket & Headset

Threaded & press-fit assemblies need Anti-Seize where they contact the frame making cups easy to remove after many miles.

Pedals & Crank Arms

can be extremely difficult to remove without Anti-Seize. Apply to pedal threads before installing. A little Anti-Seize on the crank/spindle contact area will save you a lot of trouble down the road.

Anti-Seize is NOT needed or recommended for use with composite (carbon) parts. Use a quality composite assembly paste. Always follow the manufacturers instructions and ask a qualified mechanic when questions arise.


Available in 2 - ounce Tubes. Other container sizes available upon request.



Tube thread size: 9/16-18 NF(m)

NO DRAG™ Cable Oil

is a PTFE enhanced waterproof synthetic lubricant with anti-corrosion additives; providing dynamic lubrication between metal, plastic or rubber parts. The carrier agent used to deliver the lubricant dissipates, leaving a fine PTFE film.

Temperature Range	-65° to 475° F
Safe for Metal, Plastic & Rubber parts	
Non-Hazardous – Environmentally Friendly 	
Non Toxic and Non-Drying	

Cables & Casings

Improves shifting and braking by reducing cable friction and keeping the casing interiors free of abrasive contamination. Adds an additional layer of protection to high-tech casings by repelling dirt. Apply to new or well cleaned brake and dérailleur cables during insertion into casings. Be careful to keep any and all lubricants away from brake pads. Shake well before using.

Non Dirt Attracting PTFE Formula

Clipless Pedals

Apply to cleat springs and contact points of your clipless pedals for smooth entry and exit. Frequent lubrication will greatly extend cleat life, and will reduce ankle and knee stress. There is great variety in clipless pedal types. Always follow manufacturer's instructions and stay safe.

Shake well before using.
Available in 2 - ounce dropper bottles.
Other container sizes available upon request.




Dérailleurs

Both front and rear dérailleur pivot points and pulleys need to be kept clean and lubricated for responsive shifting. Apply a drop of SPOT to each pivot after cleaning, and move the dérailleur through all gears multiple times. Wipe away any excess product.

SPOT LUBE™ OIL

- Dérailleur pivots & Pulleys
- Shifters and brake calipers.
- Freehub & Freewheel pawls

Spot Lube Oil is a waterproof synthetic medium viscosity lubricant that stays put. It is non-drying, will not get sticky and protects in adverse conditions.

Temperature Range	-30° to 400°F
Viscosity (nominal)	200-220 centistokes
Excellent Extreme Pressure Reducing Agents	
Contains no perfumes, dyes, or heavy metals 	
Non Toxic and Non-Drying	

Brake Calipers

have pivots, springs and plain bearings that need to be cleaned and lubed regularly. A little goes a long way! Be careful to keep oil away from brake pads. Brake pads harden over time and should be replaced often.

Freehub / Freewheel Pawls

High quality medium viscosity oil is best for pawls. Grease can cause them to stick, which can lead to slippage. Use Dualco grease in the freehub ball bearings.

Available in 1 - ounce dropper bottles.
Other container sizes available upon request.



Keep it Clean

Wear and friction are most aggravated by dirt. Clean your bike regularly, and always clean your chain before lubricating.



Chain Lubrication


Chains require special attention. We are developing two types of low friction lubricants to cover the wide range of environmental conditions bicyclists experience. We are actively measuring the performance of these lubricants as they are developed.



COOL Wet Synthetic Chain Lube™ is a long lasting lubricant with anti-corrosion additives engineered to perform under severe conditions.

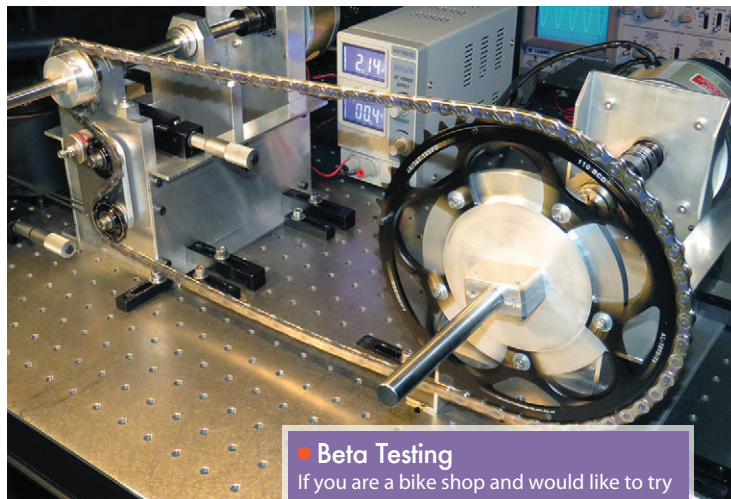
HOT Dry PTFE Chain Lube™ is a Synthetic formulation with anti-corrosion additives engineered for normal conditions.



 Contains No Zinc or heavy metals

Chain Lubricant Testing & Development

DUALCO is working with an independent laboratory to actively measure resistance in chain lubrication products. These techniques will be used to maximize performance and component longevity.



• Beta Testing
If you are a bike shop and would like to try our not-ready-for-primetime chain lubes, please let us know.

Professional Quality Grease Guns

Our most popular tools among professional bicycle mechanics. DUALCO offers many other products ranging from large scale industrial to consumer applications.

Utility

guns require only one hand to operate and are ideal for working in confined areas where lever action guns are inconvenient. All models will handle multi viscous grades of lubricant.



• Many gun & accessory combinations available

Tube thread size: 9/16-18 NF(f)

Squeeze Tube

Squeeze Type guns are perfect for one hand operation in tight spaces. These models are designed to be used with squeeze tube containers. Simply squeeze the tube to prime. All models will handle multi viscous grades of lubricant.

Accessories

Dualco makes a multitude of nozzles, adaptors and attachments. All of our products are highly modular in design, making it easy to create exactly the lubrication tools you need.



- Lightweight, compact & easy to use
- Durable all metal construction
- Self activated priming
- Quick service and cleaning
- All parts serviceable & replaceable
- Ground plunger & ball check
- Pinpoint accuracy
- Easy to refill
- Made in U.S.A.
- See our complete selection at dualco-inc.com

The right choice for
cycling manufacturers,
shops and
serious riders.



Manufacturers of Professional
Lubrication Equipment since 1960

- To ensure a long life of all Dualco lubricants, always store at room temperature.
- SDS and Detailed Specification Sheets are available at dualco-inc.com

All Dualco Lubricants:

- Are Synthetic and will not polymerize.
- Will not thicken in cold weather. Non-Hardening and will not "cake".
- Will not harm bike components, gaskets, seals or O-Rings.
- Do not contain perfumes, dyes or heavy metals.
- Are Environmentally Friendly & Non-Toxic. 🌿
- Engineered & Made in the U.S.A.

Dualco makes It easy to
enjoy nature using
environment-friendly
products.



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