

TREAT YOUR EQUIPMENT LIKE A KING™



WE'VE GOT A SUPERIOR GREASE FOR THAT



2



MULTIPURPOSE

7



SPECIALTY

13

ADVANCED ISOGOLD™ TECHNOLOGY

Royal's Advanced ISOGOLD™ Technology is a proprietary blend of high-performance additives engineered to protect and lengthen the life of equipment.

OUR DIVERSE PRODUCT LINE SERVICES A WIDE RANGE OF INDUSTRIES























MOST ROYAL GREASES COME IN A RANGE OF SIZES TO FIT ANY NEED

















Royal started over 100 years ago by supplying automotive, farm and oil field lubricants in and around Tulsa, Oklahoma. Royal now supplies a full line of extended duty high-performance oils and greases, worldwide, that have proven their ability to outperform most lubricants available for mining, construction and industrial equipment. This includes a full line of synthetic oils and greases, food grade lubricants as well as biodegradable lubricants.













CROWN ROYAL MOLY EP GREASE

This high-temperature lithium complex grease is fortified with molybdenum disulfide and graphite to provide excellent protection against shock loading and extreme pressures in harsh environments. These characteristics are especially valuable in heavy-duty applications with sliding or oscillating motion.

















LITHIUM COMPLEX







CORROSION PROTECTION





VT. 14 OZ / 396 gr

ROYAL 876 GREASE

A heavy-duty lithium complex grease designed for high-load capabilities. Formulated with high-viscosity base oils and a synergistic combination of high-quality extreme pressure (EP) and heavy-duty additives, it offers excellent structural and oxidation stability and high resistance to water washout. Also contains a tackiness additive enhancing stay-in-place properties.















GREASE COLOR: RED

LITHIUM COMPLEX

















ROYAL ATLANTIS GREASE

The newest generation of environmentally friendly superior performance, heavy-duty grease; exhibiting outstanding film strength and outstanding water resistance even under corrosive saltwater environments due to its ability to absorb water without losing thickener consistency.













CALCIUM SULFONATE COMPLEX













ENHANCED ADHESION



ET WT. 15 OZ / 425 gr

VET WT. 15 OZ / 425 gl

ROYAL ULTRA 865 HD GREASE

Suitable for heavily loaded conditions, wet environments, and where high temperatures exist. Will perform virtually in all industrial applications, especially environments with concurrent high temperatures and water ingress.

















GREASE COLOR: AMBER

CALCIUM SULFONATE COMPLEX

















ROYAL ULTRA 865M GREASE

High-viscosity base oil and overbased calcium sulfonate complex thickener system fortified with molybdenum and our proprietary Advanced ISOGOLD™ technology. Contains 5% lubricating solids. A perfect choice for heavily loaded applications in hot or wet and corrosive environments.















GREASE COLOR: BLACK

CALCIUM SULFONATE COMPLEX



















ROYAL HAMMER PASTE

A high-performance grease specifically designed for hydraulic hammers and other tools requiring anti-seize compounds. Hydraulic hammers and other such tools experience extreme shock and axial loads that can lead to rapid wear and tear of contact surfaces and guide bushings.











GREASE COLOR: GREY

CALCIUM SULFONATE COMPLEX











VALUE PROPOSITION: ROYAL HAMMER PASTE

ROTARY AND ROTARY-PERCUSSION BLASTHOLE DRILLS AND DOWN-THE-HOLE HAMMERS



CIRCUMSTANCE

A gold mine located in Mexico evaluated **Royal Hammer Paste** in several applications. The mine was not only interested in extending bit life, but also performing makeup and breakout tasks quicker and extending the life of costly shock subs.



\$17,000

SAVINGS TO MINE

HYDRAULIC TOOL: \$800

Whether the breakout tool is a chain clamp type or wrench, Royal Hammer Paste's low friction solids significantly reduce breakout torque making disassembly easier, faster and safer.



WORKER SAFETY

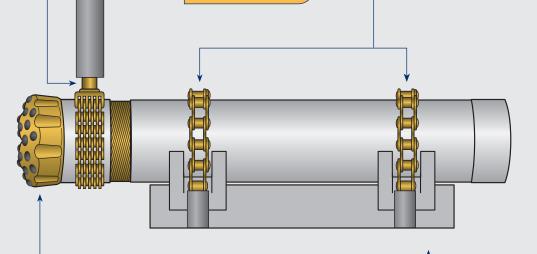
Reducing the force required to disarm the bits reduces the likelihood of a chain or screw snapping — which can cause devastating bodily harm and injury.

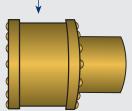
BREAKOUT BENCH HYDRAULIC CLAMPS: \$200

Proper lubrication with Royal Hammer Paste reduced friction and force at the drill bit to support the clamp securely during assembly in the BOB. Reduced force equals improved worker safety.

SHOCK SUB: \$11,000

Applying Royal Hammer Paste reduced the extreme shock and axial loads in the shock absorbers allowing for optimum performance. Royal Hammer Paste also reduced wear and prolonged equipment life.





DRILL BIT: \$2,000

Whether it is a rotary or rotary-percussion blasthole drill or a down-the-hole hammer, Royal Hammer Paste's low friction solids reduce breakout torque and protect threads from galling, wear and corrosion. Applying Royal Hammer Paste allows for assembly and disassembly of bits without heating, keeping its original form. Thread cords without fractures are also maintained.

HYDRAULIC TOOL \$2,800

Used to grip and hold down the parts of the bit during assembly and disassembly. Applying proper lubrication with Royal Hammer Paste increased the life of various parts of this equipment and reduced the risk of broken parts resulting in injury.

ROYAL VALUE PROPOSITION: ULTIMATE 1000 GREASE

ENHANCING BUSHING LONGEVITY IN MINING CRUSHERS TO PREVENT DOWNTIME

CIRCUMSTANCE

A mine in Peru operating a crusher performed a scheduled inspection for maintenance after the end of the crusher's cycle, and during that inspection, the engineer determined over 3 millimeters of bushing wear. In order for the crusher to perform without failure, the bushing must be replaced.

If wear exceeds 3mm, the bushing must be replaced, requiring extensive maintenance, resulting in COSTLY DOWNTIME.

SOLUTION

Royal's technical sales expert recommended **Royal Ultimate 1000 Grease** as a solution to dramatically improve bushing wear and reduce downtime for maintenance. This grease can withstand extremely heavy loads while protecting moving parts from wear, rust and corrosion.

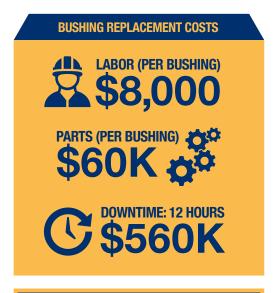
The mining engineer replaced the original grease and ran the crusher's cycle.

PROVEN PERFORMANCE

After the 12-month crusher cycle was completed and the scheduled inspection was performed, the bushing wear was dramatically reduced (less than 3mm) by applying the Royal Ultimate 1000 Grease.

The mine is expected to gain an entire new cycle operating the crusher without replacing the bushing, resulting in significant COST SAVINGS!





\$628,000
TOTAL SAVINGS TO MINE



ROYAL ULTIMATE 1000 GREASE

A premium, semi-fluid grease with high viscosity base oil and does not contain any asphalt. It provides superior EP, anti-wear (AW) protection, while withstanding extremely heavy loads — perfect for slow moving, large open gear drives operating in very hostile environments. Can be applied by spray systems and also through dipping or brushing procedures.







<u>ន</u>1000

GREASE COLOR: BLACK

ALUMINUM COMPLEX



LATTICIVIL I TILOGOTIL

★ WATER RESISTANT

HIGH TACK

HIGH TEMPERATURE

ANTI-WEAR



MONARCHTM SYNPLEX EP GREASE

This full-synthetic lithium complex multipurpose grease provides a broad range of operating temperatures with superior cold weather performance. A lithium complex soap base thickener formulated with polyalphaolefin (PAO) base oil extends life in arctic or sub-zero temperatures. Meets or exceeds NLGI GC-LB requirements.











LITHIUM COMPLEX



EXTREME PRESSURE







LOW TEMPERATURE





WT. 14 OZ / 396 gr

TWT. 14 OZ / 396 gr

ROYAL 760 EP GREASE

Royal 760 EP is preferred by users with multiple grease applications operating at moderate load carrying capacities, pressure and temperature ranges. Fortified with additives that provide very good EP/AW protection, rust and oxidation resistance. Compatible with other lithium and lithium complex greases.















GREASE COLOR: RED

LITHIUM 12-HYDROXY STEARATE



EXTREME PRESSURE



🖊 WATER RESISTANT



HIGH/LOW TEMPERATURE



HIGH TACK



ROYAL 98 GREASE

This multipurpose lithium complex grease contains antioxidants, corrosion inhibitors. EP/AW additives and meets or exceeds NLGI GC/LB specifications. It is recommended for extended service in a wide range of heavy-duty equipment and high-temp wheel bearings, roller & ball bearings, throw-out bearings, fifth wheel, and many other applications.

LITHIUM COMPLEX

EXTREME PRESSURE

WATER RESISTANT

EXTENDED SERVICE

HIGH TEMPERATURE

HIGH TACK















ROYAL ENVIROGUARD EP GREASE

Designed for superior performance in environmentally sensitive applications. Will meet VGP requirements and is readily biodegradable. This grease has been fortified with environmentally safe additives enabling superior performance under heavy load, water ingress, and moderately high temperatures.



EXTREME PRESSURE

WATER RESISTANT



















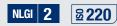
ROYAL WHITE LITHIUM EP GREASE

A light colored, multipurpose lithium grease made from highly refined base oils. The lithium 12-hydroxystearate thickener gives the grease a dropping point of over 360°F. Formulated with rust and corrosion inhibitors.











GREASE COLOR: WHITE





CORROSION PROTECTION



HIGH PUMPABILITY



LOW/MODERATE LOAD



ROYAL NOVA GREASE

A premium, high-temperature, multipurpose grease fortified with premium additives to provide excellent lubrication and hightemperature properties. The non-melting, inorganic bentonite clay thickener, supported by additives, provides excellent hightemperature performance and a wider operating temperature range than most soap based greases.





EXTREME PRESSURE







HIGH IMPACT



ADVANCED ISOGOLD™ TECHNOLOGY











ROYAL TUNDRA GREASE

A long life, fully synthetic, calcium sulfonate complex grease embodied with solid lubricants specially designed to extend service life in arctic climate conditions. This grease is formulated with fully synthetic polyalphaolefin (PAO) base oil and is engineered with compatible synergistic additives to provide the highest performance under heavy/shock load applications.













GREASE COLOR: BLUE

CALCIUM SULFONATE COMPLEX







🖊 WATER RESISTANT



EXTENDED SERVICE



HIGH/LOW TEMP



SHOCK LOAD







ROYAL TUNDRA MOLY GREASE

A long life, fully-synthetic grease specially designed to extend service life in arctic climate conditions. Formulated with fully synthetic polyalphaolefin (PAO) base oil and engineered to provide the highest performance under heavy/shock load applications.













CALCIUM SULFONATE COMPLEX



EXTREME PRESSURE



WATER RESISTANT



EXTENDED SERVICE



HIGH/LOW TEMP





Recommended where high-load carrying, corrosion-resistant grease is required. Outstanding film strength and resistance to corrosive saltwater environments. An excellent high-temperature grease that works well in and around water. This product is environmentally friendly and contains no heavy metals.

PERFORMANCE KING

NLGI 1 2 물220

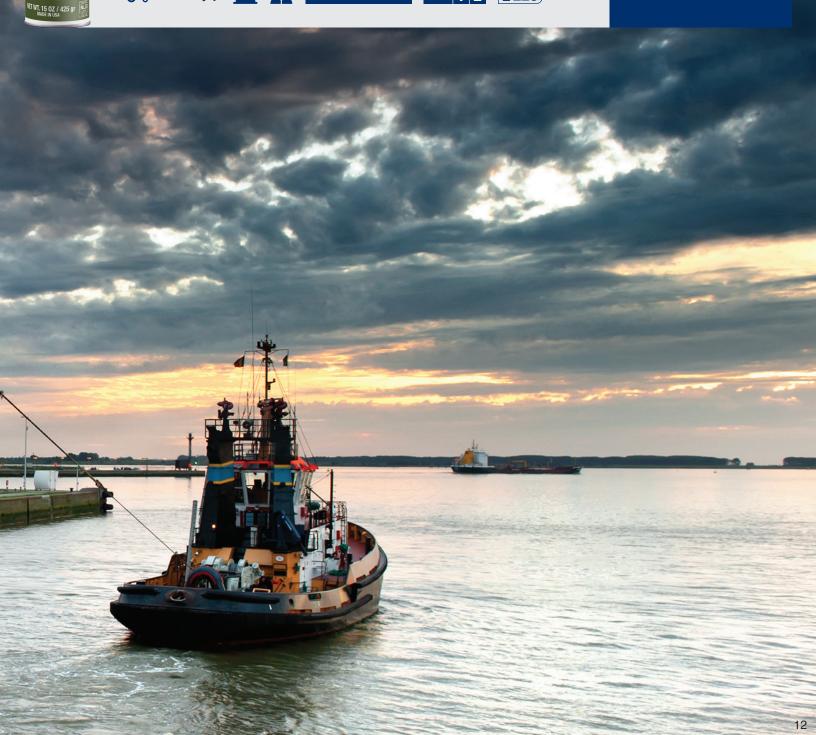














SOYAL SORNHEAD GREASE CHRISCO CHRISCO

ROYAL CORN HEAD GREASE

Formulated specifically for use in corn head gear cases and most other slow moving gear box applications requiring an NLGI 0 grease. Royal Corn Head grease is fortified with extreme pressure additives, rust and corrosion inhibitors, exhibits good high-temperature operation, low-temperature pumpability and resists water washout.



















ROYAL COTTON PICKER SPINDLE GREASE

Formulated for protection of cotton picker spindle heads, can be used in general purpose applications where a NLGI #00 is recommended. Extra protection against wetting agents, defoliants, and plant juices.





GREASE COLOR: GREEN

LITHIUM 12 HYDROXY



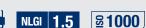
ANTI-WEAR





ROYAL SUGAR MILL GREASE

Specially designed for lubricating sugar mill crusher roll journal bearings, bushings, and open gears. This high-performing grease is based on modified calcium thickeners, encapsulated with overbased sulfonate wafers to combat the most severe operating conditions.



CALCIUM SULFONATE COMPLEX

- EXTREME PRESSURE
- WATER RESISTANT
- **SHOCK LOAD**
- **CORROSION PROTECTION**





ROYAL INDIGO GREASE

Robust aluminum complex grease for a wide range of applications. It has excellent water resistance and will not wash out, is not affected by hydrogen sulfide (H₂S), and resists saltwater corrosion.

















GREASE COLOR: BLUE

ALUMINUM COMPLEX





EXTENDED SERVICE

HIGH TACK

HIGH TEMPERATURE





ROYAL NLZ TOOL JOINT COMPOUND

Anti-seize compound specifically formulated for drill pipe, weight pipe and collars. Special formula prevents metal-to-metal contact under severe operating conditions and provides protection against seizure, galling and breakdown. Pipe dope designed for making breakouts and connections.









LITHIUM COMPLEX



EXTREME PRESSURE





HIGH/LOW TEMP



ROYAL PREMIUM COPPER CLAD GREASE

A calcium sulfonate complex thickener based high temperature premium quality copper anti-seize and thread lubricant. This premium-quality lubricant contains super fine copper flakes fortified with other synergistic solid lubricants.











GREASE COLOR: BLACKISH COPPER

CALCIUM SULFONATE COMPLEX











ROYAL PLUG VALVE GREASE

This peanut butter grease is ideal for plug and various other valve applications with excellent lubricity and sealant capabilities. Resists water, gas, condensate, gasoline, chemical vapors, solvents, etc. Unaffected by hydrogen sulfide (H₂S) and resistant to saltwater corrosion.

SILICON COMPLEX

EXTREME PRESSURE

WATER RESISTANT











ROYAL CURVE RAIL GREASE

Designed to lubricate rail track curves, reducing friction and wheel wear. This grease is especially engineered for rail applications with proven performance.

LITHIUM 12-HYDROXY STEARATE











220/460



ROYAL ENVIROGUARD CURVE RAIL GREASE

Designed to minimize friction, reduce temperature, and prevent wear between wheel flange and rail especially on curve. Easily dispensable by rail lubricator, is highly water resistant, and exceeds the requirements of curve rail applications.

GREASE COLOR: GRANITE

LITHIUM-CALCIUM

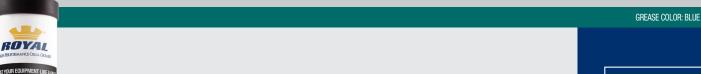


HIGH PUMPABILITY

SHOCK LOAD



NLGI 1



ROYAL VOLT GREASE

A premium, EP, multipurpose, long life, electric motor grease which exhibits excellent thermal stability, excellent high and low temperature capabilities, and superior shear stability when compared to typical polyurea greases. This grease has excellent water resistance characteristics and will not wash out.



PERFORMANCE KING





POLYUREA









CORROSION PROTECTION



ROYAL MOLY HI-TEMP GREASE

A premium high-temperature, multipurpose grease with excellent high-temperature performance, and a wider operating temperature range than most soap-based greases. Its specialized additives provide a chemical barrier protecting lubricated parts against rust and corrosion.









GREASE COLOR: GRANITE

BENTONITE CLAY









WE'VE GOT A SUPERIOR GREASE FOR THAT

HEAVY DUTY	
Crown Royal Moly EP Grease	2
Royal 876 Grease	2
Royal Atlantis Grease	3
Royal Ultra 865 HD Grease	3
Royal Ultra 865M Grease	4
Royal Hammer Paste	4
Royal Ultimate 1000 Grease	6
MUTIPURPOSE	
Monarch™ Synplex EP Grease	7
Royal 760 EP Grease	7
Royal 98 Grease	8
Royal Enviroguard EP Grease	8
Royal White Lithium EP Grease	9
Royal Nova Grease	10

Royal Tundra Grease	10
Royal Tundra Moly Grease	11
Royal Ultra 865 Grease	12
SPECIALTY	
Royal Corn Head Grease	13
Royal Cotton Picker Spindle Grease	13
Royal Sugar Mill Grease	14
Royal Indigo Grease	14
Royal NLZ Tool Joint Compound	15
Royal Premium Copper Clad Grease	15
Royal Plug Valve Grease	16
Royal Curve Rail Grease	17
Royal Enviroguard Curve Rail Grease	17
Royal Volt Grease	18
Royal Moly Hi-Temp Grease	18