

1914 2014
Celebrating a Century of Excellence



ROYAL

HIGH PERFORMANCE OILS & GREASES

High Performance Oils & Greases for
the **Toughest** applications
Manufacturing

for **100** Years

www.royalmfg.com



Manufacturing High Performance Oils & Greases

Royal Mfg Co. is committed to the research, development, blending, packaging, and marketing of high-performance lubricants and greases.



Just outside of San Antonio, TX, the Schertz facility rests on 14 acres strategically located off Interstate 35, a north-south highway that spans the US. Our 80,000 sq ft lube plant has an external tank farm that can hold 2 million gallons. Our newest structure, a 25,000 sq ft grease plant, houses 14 kettles including a Stratco contactor and produces an annual throughput capacity in excess of 30 million pounds. Our QC lab tests all incoming and outgoing raw materials and finished products.



Our Tulsa, OK facility rests on 22 acres and includes 230,000 sq. ft. of manufacturing and warehousing space. Tulsa houses our white oil plant where we produce food grade lubes and greases. We offer a variety of package sizes as well as a complete and extensive line of lubricants and greases. Our 14 kettle grease plant, including a Stratco contactor, has an annual throughput capacity in excess of 30 million pounds. Our tank farm holds 4 million gallons. A Royal subsidiary, Riverside Labs, monitors our quality control checks and offers independent testing services throughout our industry.



RTW Terminal is located at the Port of Brownsville at Oil Dock #3. The 35 foot draft in the canal provides sufficient water depth to receive both ships and barges. RTW stores, receives, and ships lubricating base oils, solvents and, wax. The current storage capacity is more than 9 million gallons or 230,000 barrels.



Royal Mfg Co, celebrating 100 years as a leading manufacturer and marketer of lubricants and greases made in the United States, is currently focused on marketing our Royal branded line that has been extending the life of your equipment for over a century. A registered ISO 9001:2008 company, Royal manufactures hundreds of different types of lubricating oils and greases by utilizing biodegradable, synthetic, and mineral base oils for all types of applications including; mining, construction, oil and natural gas, steel mills, marine, industrial, agriculture, and transportation. Our ability to toll blend for a variety of customers has strengthened our private label business over the years and has expanded our global reach. Royal's vision is now aimed to do the same with our Royal brand. Look for us worldwide.



A Legacy of *Quality*, a History of PERFORMANCE

Royal 760 Polyplate EP Grease: This multi-purpose, EP lithium 12 grease has a recommended application temperature range from 0°C to 150°C (300°F), and meets NLGI Service classification LB for Chassis greases.

Royal 876 Grease: With a high base oil viscosity, lithium complex base, and top of its class EP (80 lb. Timken), Royal 876 is designed for heavy duty applications in construction, mining, automotive, trucking, and farming industries. Royal 876 is the top choice for suspension systems, wheel bearings, universal joints, ball joints, anti-friction plain bearings, and is well suited for multipurpose lubricant applications with high loads and medium / slow speeds. In addition, it is also excellent for paper machine wet ends, felt roll bearings, couplings, and press sections and meets and exceeds NLGI GC-LB.

Royal 98 Grease: This lithium complex EP grease has a Timken OK load of 60 lb., a suggested operating temperature range of -18°C (0°F) to +180°C (350°F), and is recommended for extended service in heavy-duty automotive, trucks, buses, farm tractors, construction equipment, high temp wheel bearings (disc brakes), roller & ball bearings, throw-out bearings, universal joints, chassis, fifth wheel, and many other applications. This Grease meets NLGI GC-LB for wheel bearing greases as outlined in ASTM D 4950.

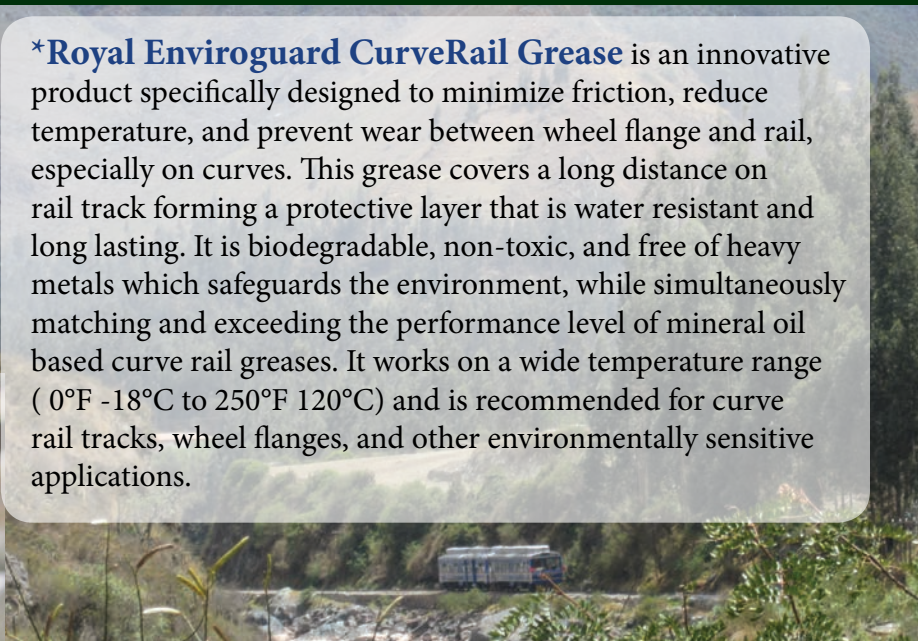
Crown Royal Moly-Graphite EP: An NLGI#2 lithium complex base grease manufactured with superior quality base oils, and fortified with molybdenum disulfide, graphite, and other performance additives, Crown Royal Moly-Graphite EP exceeds severe equipment requirements and has superior performance.



**Listed in the USDA BioPreferred Catalog as rail track bio-base grease*



***Royal Enviroguard CurveRail Grease** is an innovative product specifically designed to minimize friction, reduce temperature, and prevent wear between wheel flange and rail, especially on curves. This grease covers a long distance on rail track forming a protective layer that is water resistant and long lasting. It is biodegradable, non-toxic, and free of heavy metals which safeguards the environment, while simultaneously matching and exceeding the performance level of mineral oil based curve rail greases. It works on a wide temperature range (0°F -18°C to 250°F 120°C) and is recommended for curve rail tracks, wheel flanges, and other environmentally sensitive applications.



Royal Enviroguard Journey is the newest generation for wire ropes and cable protection. This exceptional product has a unique and innovative hybrid type thickener, in combination with the finest 100% bio-based oils. It is formulated with a carefully designed synergistic blend of the highest performance environmentally acceptable solid and liquid additives which give this product a superior protection for most types of wire ropes, wirelines and cables. **Royal Enviroguard Journey** is biodegradable, non-toxic, and heavy metal and solvent free; thus safeguarding the environment while simultaneously matching and/or exceeding the performance level of mineral oil based products.



Royal Ultra 865 Grease is a high performance, multi purpose, extreme pressure calcium sulfonate grease exhibiting outstanding film strength and resistance to corrosive salt water environments. With a 65 lb. Timken load, it is particularly suitable for high speed bearings and centralized lubrication systems. Royal Ultra 865 Grease is recommended for the most severe applications in the industry. The main features of this product include: excellent water repellency, oxidation resistance, rust protection, and a wide operating temperature range. It meets NLGI Service Classification LB for Chassis and GC for Wheel bearing greases as outlined in ASTM 4950.



**Approved by Komatsu® as a Central Lube System grease (CLS)*

***Royal Ultra 865M Grease** is formulated with an over-based calcium sulfonate complex thickener system and an innovative blend of solid lubricants and other performance additives to keep equipment free from metal-to-metal contact and temperature under control. Over-based calcium sulfonate complex greases with solid lubricants are the preferred choice for heavy duty equipment manufacturers, and are optimum for severe operating conditions.

Royal Ultra 865M Grease is made with high viscosity premium base oils that provide grease and equipment long life, and protects against chemical and thermal degradation.

Royal manufactures and markets some of the best quality calcium sulfonate greases in the world. Our greases work in vast temperature ranges, are easy to pump, and have very heavy load capabilities.

Royal Ultimate 1000 Grease is a sprayable, premium quality adhesive grease made with aluminum complex soap, high viscosity base oil, and does not contain any asphalt. It is fortified with a synergistic combination of powerful solid lubricants, superior extreme pressure and anti-wear, along with proprietary additives to create exceptional performance. This grease withstands extremely heavy loads and slow moving large open gear drives that operate in very hostile environments. It forms a very thin but super strong film across heavy gear surfaces, which reduces the grease consumption to provide better lubrication. This product is recommended for large open gears, bushings, rotary kilns, balls, rods and sag mills, dryers, cone crushers, debarking drums, excavators, shovels, large chains, and other rotating machinery with open gear drives. It can be also used as a wire rope due to its outstanding wear and water resistance.



Royal Polyurea Grease is a premium, extreme pressure, multi-purpose, long life grease that exhibits exceptional thermal stability, excellent high and low temperature capabilities, and superior shear stability especially when compared to typical polyurea greases. This grease has excellent water resistance characteristics and will not washout. It maintains its consistency under severe working conditions and resists both rust and oxidation. It is recommended for electric motors, sealed for life bearings, rolling element bearings, furnace door bearings, molding operations, and other ranges of industrial applications.



Royal Indigo Grease is a premium, extreme pressure, tacky multi-purpose, extended service life grease. This high performance Aluminum Complex grease exhibits excellent thermal stability, excellent high & low temperature capabilities, superior anti-corrosion and anti-oxidant characteristics, and excellent extreme pressure and anti-wear properties. This superior performance, heavy-duty grease exhibits an outstanding film strength and unbeatable water resistance characteristics and will not washout.

PREFERRED CHOICE FOR FRACKING VALVES LUBRICATION AND COMPATIBLE WITH ALL OTHER ALUMINUM COMPLEX GREASES.

Royal Plug Valve Grease is a high quality lubricant recommended as sealant for different types of valves. This grease is fortified with performance additives and performs effectively in valve operations and provides an effective seal. This grease resists and performs well in presence of water, gas, condensate, gasoline, chemical vapors, solvents, etc. This grease is for lubrication purpose only.



Royal Ultra 865 HD Grease:** An environmentally friendly heavy duty grease that exhibits superior performance, outstanding film strength, and phenomenal resistance to corrosive saltwater environments. It does not contain any heavy metals or environmentally damaging additives. It is an optimal choice for diamond drilling operations, marine applications, and many other very severe applications in mining, oil fields, logging, heavy industry, cement plants, steel mills, etc. This formulation creates excellent mechanical stability and supreme long lasting adhesion to the metal surfaces, which prevents wipe off and gives this product exceptional lubricity, high load carrying capability, thermal stability, rust protection, and excellent water washout resistance. *1,000 hrs. salt fog test****

Environmentally Friendly: Royal Ultra 865 and 865 HD do not contain any of the following harmful additives: antimony, barium, chlorine, lead, copper, graphite, phosphorus-sulfur or zinc.

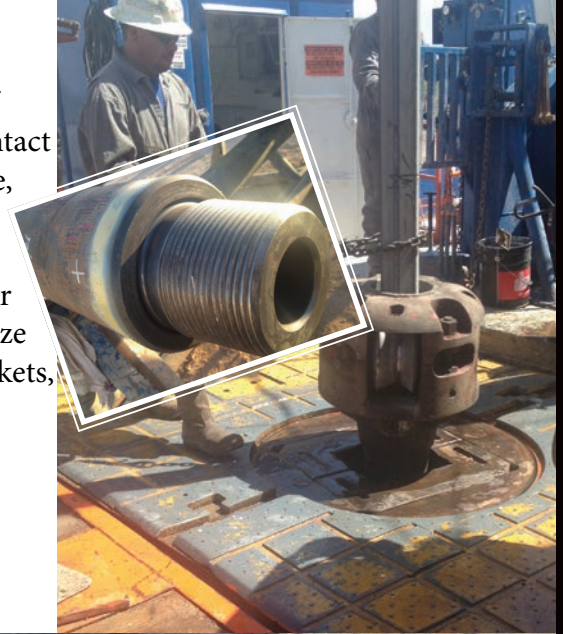
Royal Atlantis Grease is the newest generation of environmentally friendly and superior performing, heavy-duty grease exhibiting outstanding film strength and superior water resistance even under corrosive saltwater environments due to its ability to absorb water without losing thickener consistency. **Royal Atlantis Grease** is the result of years of research and development to create the latest technology of an exclusive high performance, over-based calcium sulfonate complex thickener, high viscosity base oils, and a selected combination of proprietary additives. This formulation creates excellent mechanical stability and supreme long lasting adhesion to metal surfaces, preventing wipe off, giving this product exceptional lubricity, high load carrying capability, optimal EP properties, thermal stability, rust protection, and excellent water washout resistance.

****This grease is non toxic to aquatic environment and passes LC 50 test.****



Royal NLZ Tool Joint Compound is specifically formulated for drill pipes, weight pipes, and collars, and may be used in a wide variety of operating temperatures. This special formula prevents metal-to-metal contact under severe operating conditions and provides protection against seizure, galling, and breakdown. Its exceptional performance makes it easier for breakouts and connections. This grease is doped with finely divided solid lubricants that will not separate, settle, dry out, or harden under storage or during operations. It is recommended in most applications where anti-seize compounds are needed such as: drill pipes, slides, flanges, studs, nuts, gaskets, etc.

Environmentally Friendly: Royal NLZ uses a unique combination of solid lubricants with no copper, lead, or zinc, and has a proprietary extreme pressure additive to impart outstanding anti-seize and anti-wear properties.



Anti-Seize

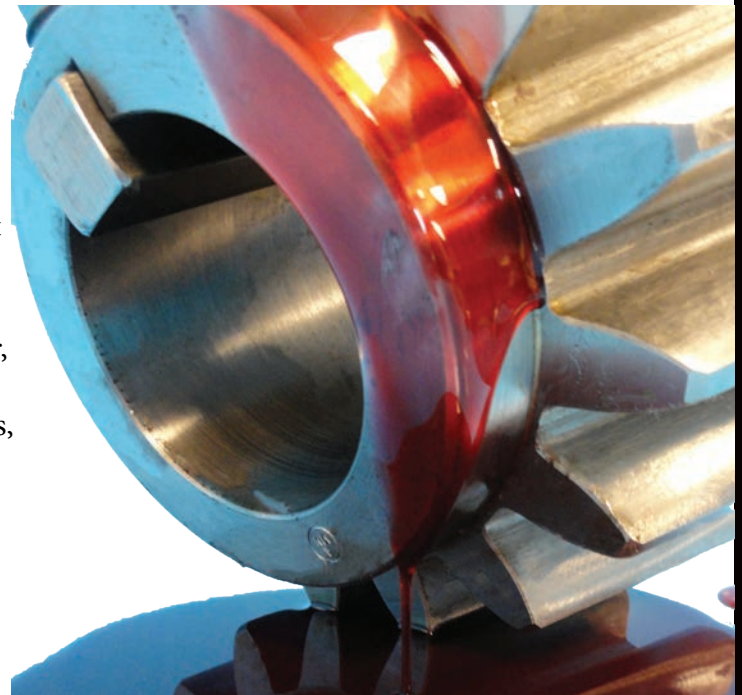
Royal Hammer Paste is a high performance grease specifically designed for hydraulic hammers and other tools requiring anti-seize compounds. Hydraulic hammers and other such tools experience extreme shock and axial loads that can lead to rapid wear and tear of contact surfaces and guide bushings. Royal Hammer Paste is formulated to create a strong protective film on metal-to-metal contact surfaces and clings to parts under heavy shock loads, high temperatures, and wet conditions.

Royal Hammer Paste is a unique product made with calcium sulfonate base thickener combined with copper and other high performance solid and extreme pressure, anti-wear and anti-oxidant additives.

Royal Cirro 20K Turbine Oil is a superior quality rust and oxidation inhibited turbine oil designed for use in both steam and gas turbines. The ASTM D-943 TOST result of more than 16,000 hours enables it to be used in applications which require very long life where other turbine oils fail. It is recommended for use in steam and gas turbines, including the General Electric Frame 7 units, as well as many pumps, compressors, oil circulating systems, centralized oil mist systems, and other applications requiring a supreme quality, long life turbine oil. It can be used in multiple applications requiring a superior quality non-EP (zinc free) oil with excellent oxidation resistance.

Royal Centurion Super EP Gear Oils are a new generation, extra high performance series of industrial gear oils, embodied with an innovative additive package for outstanding extreme pressure, load carrying, friction reduction, superb thermal and oxidation stability, excellent water resistance, high demulsibility, and long gear service life. **Royal Centurion Super EP Gear Oils** are recommended for a wide range of industrial gears like spur, helical, bevel, worm gears, etc., with proven advantages in mining, quarrying, agriculture, conveyers, agitators, pumps, dryers, extruders, fans, mixers, pulpers, screens, and other heavily loaded gears.

These oils are equally recommended for non-gear applications like couplings, cranes, screws, and heavily loaded bearings.



High Performance Oils



For more details please contact your local distributor or info@royalmfg.com

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ROYAL
HIGH PERFORMANCE OILS & GREASES
Royal Mfg Co. LP

Tulsa, OK Plant
516 S 25th West Ave.
Tulsa, OK 74127
Fax: 918-592-6472
Phone: 918-584-2671

Schertz, TX Plant
9998 Doerr Lane
Schertz, TX 78154
Fax: 210-651-7405
Phone: 210-651-7322