

greases
gear oils
lubes





QuestSpecialty Lubricants

GREASES

The QuestSpecialty grease line includes bentone, lithium complex, and calcium sulfonate products.



Bentone is a non-melt clay thickener with no dropping point by ASTM D2265 test method. It reduces wear and has good shear stability. Our ***Bentone-Based*** products are high-quality, non-soap, extreme-pressure, clay-based greases developed for lubricating industrial bearings and machinery operating under heavy loads and subjected to high temperatures. These products possess excellent storage stability and retain their consistency at high temperatures. In addition, bentone-based greases adhere to the surfaces to which they are applied and have excellent water-washout characteristics. They are excellent multi-purpose lubricants with high film strength.



Lithium Complex greases possess good stability, high temperature characteristics and water resistant properties. Our performance requirements are reinforced with additives providing extreme pressure, anti-wear, and anti-rust and -corrosion qualities, with some greases meeting the NLGI's GC-LB specification requirements. These are good general purpose and bearing lubrication products.



Our ***Calcium Sulfonate*** greases do not need heavy metal additives as they exhibit superior mechanical and shear stability resulting in less leakage and run-out during operation. They also have superior drop point and high temperature life. Calcium sulfonate greases have inherent extreme-pressure, anti-wear and rust-inhibiting additives. Furthermore, calcium sulfonate, by virtue of its thickening property, provides excellent water resistance and does not break down even in the presence of water. Calcium sulfonate greases are environmentally friendly and are the most technologically advanced on the market.

We offer two ultra-high temperature NLGI grade 2 anti-seize products: one contains aluminum and one is copper based which continues ground conductivity better than ordinary lubricants.

LUBRICATION OILS

QuestSpecialty's lubrication oils comprise high performance, multi-viscosity hydraulic and gear oils allowing wide operating temperatures and conditions. They possess superior anti-friction properties for lower operating temperatures resulting in energy savings and longer gear life.

FUEL GUARD

This diesel fuel additive helps to stabilize diesel fuel which increases engine life and power by keeping internal engine parts cleaner, aiding combustion, neutralizing acids and holding carbon, varnish and gum in suspension.

Products



L1020 - MOLY TUFF

Premium Multi-Purpose Moly E.P. Grease

A multi-use grease containing moly, high viscosity base oil and calcium sulfonate thickener system for hundreds of automotive, marine, industrial and agricultural applications. Classified GC-LB by the National Lubricating Grease Institute and meets Caterpillar CAT 5% moly requirements.

Superb Rust & Corrosion Inhibitors • Temp Range of -20°F to 500°F
All Weather Performance • Extreme Pressure Additives for High Loads
Resists Acids, Water, Salt Spray, Dust & Dirt

L1030 - BIG RED

Super Impact Non-Melt E.P. Grease

Bentone based formula does not liquefy at high temperatures like soap based greases, yet remains pumpable at low temperatures. Excellent for use on high- and low-speed ball and roller bearings, couplings, mechanical linkages, pumps, universal joints, ball joints, and fifth wheels.

High Shock & Impact Resistance • Temp Range of 0°F to 300°F
Extreme Pressure Additives for High Loads
Unique Rust & Corrosion Inhibitors • All Weather Performance
Resists Acids, Water, Salt Spray, Dust & Dirt



Also Available: Big Red - 5790 Aerosol



L1040 - MR. GREEN

High Performance Extreme Condition Grease

Particularly suitable for high speed bearings and centralized lubrication systems, Mr. Green is a shear stable, high load carrying, corrosion resistant grease recommended for use in automotive as well as extreme pressure applications.

Calcium Sulfonate Grease • Outstanding Film Strength
Oxidation Inhibitors & Extreme Pressure Additives for Severe Applications
Protects Against Corrosion & Seizing from Fresh or Salt Water
Temperature Range of -20°F to 500°F

L1060 - BIG GREEN

Super Impact Non-Melt E.P. Grease

Bentone based formula does not liquefy at high temperatures like soap based greases, yet remains pumpable at low temperatures. This waterproof lubricant is not washed out even by boiling water and steam.

High Shock & Impact Resistance • Temperature Range of 0°F to 300°F
Extreme Pressure Additives for High Loads • Unique Rust & Corrosion Inhibitors
Resists Acids, Water, Salt Spray, Dust & Dirt • All Weather Performance

L1070 - MR. JOE

Amber Premium Lithium E.P. Grease

A multi-use lithium-complex grease for hundreds of automotive, marine, industrial and agricultural applications. Remains pumpable at low temperatures. Resists chemical breakdown and oxidation. This waterproof lubricant will not wash out.

Resists Thinning or Hardening in Medium Sized High Speed Bearings
Contains Oxidation Inhibitors & Extreme Pressure Additives
Protects Surfaces Against Rust & Corrosion
Temperature Range of 0°F to 350°F



L1080 - EZ LUBE

Food Grade White Grease

A multi-purpose, high purity, calcium sulfonate based food grade lubricant that provides long lasting grease protection. For use by food processing and packaging plants, and pharmaceutical manufacturers.

Resists Extreme Pressure, Corrosion, Water Washout & Throw-Off
Temperature Range of -40°F to 500°F • NSF Rating H-1

L1500 - HYDRAULIC OIL 10W40

High Performance Multi-Viscosity Hydraulic Oil

Provides outstanding service time and performance. Excellent for use over multiple operating conditions and temperature ranges. Highly protective against rust, corrosion and friction.

Replaces Multiple Products
For Hydraulic Systems and Compressors
Provides Long Performance Life • Contains Demulsifier and Anti-Leak Additives

L1600 - RED UNIVERSAL GEAR OIL 80W90

L1800 - RED UNIVERSAL GEAR OIL 85W140

L1801 - GREEN UNIVERSAL GEAR OIL 85W140

High Performance Super Gear Oils

These super gear oils provide superior anti-friction properties and energy savings, thus lowering operating temperatures leading to longer gear life. They are embodied with an innovative additive package providing outstanding extreme pressure, load carrying, friction reduction, superb thermal and oxidation stability, excellent water resistance and demulsibility. Recommended for a wide range of industrial gears: Spur, helical, bevel, worm gears, conveyors, agitators, pumps, dryers, extruders, fans, mixers, pulpers, screens, and other heavily loaded gear systems used in construction, mining, quarrying, agriculture, steel mills, paper mills, power plants, oil fields, among many other industries.

Outstanding Anti-Wear and E.P. Characteristics

Enhanced Thermal and Oxidation Stability During Wide Operating Temperatures

Superior Corrosion Resistance to Ferrous & Non-Ferrous Parts

Provides Longer Service Gear Life Even at High Speeds

Excellent Water Resistance, Demulsibility & Anti-Foaming Characteristics

L6390 - SURRENDER

Ultra High-Temp Anti-Seize

Paraffinic oil and lithium-complex solids blend insures resistance to decomposition and oxidation under extreme temperature conditions. Approved by the USDA for use in meat and poultry plants where no contact with food occurs.

Extreme Pressure & Heat Resistant from -30°F to 2200°F

Decreases Seizure, Pitting, Galling & Thread Distortion

Stops Corrosion • Contains Aluminum

Provides Protective Coating

L6600 - KOPPER LUBE

Copper-Based Anti-Seize

Anti-seize lubricant formulated to withstand high temperatures and extreme pressures yet continue ground conductivity better than ordinary lubricants. Imbedded with copper to improve conductivity. Seals out moisture, gases and corrosive fluids from threaded connections.

Improves Ground Continuity • Conductive

Temperature Range of 0°F to 350°F

Use on Threaded Connections, Piping, Battery Cables, Fuse Clips and More

83000 - FUEL GUARD

Diesel Fuel Stabilizer

Unparalleled fuel conditioner responds to an entirely new set of demands created by new low sulfur fuels, and meets the needs of previous fuel related problems.

Prevents Slime Build-Up & Keeps Injections Running Clear

Reduces Fuel Consumption

Prolongs Pump and Injector Life

Neutralizes Harmful Engine Acids

Increases Horsepower Output

Provides Lubricity for Low Sulfur Fuel

Also Available:
EZ Lube - 5770
Aerosol



Also Available:
Kopper Lube - L660
Brush Top Can



Also Available:
Kopper Lube - 5310
Aerosol



Also Available:
Surrender - L6390
Brush Top Can



Features at a Glance

	MOLY TUFF	BIG RED	MR. GREEN	BIG GREEN	MR. JOE	EZ LUBE	HYDRAULIC OIL	RED GEAR OIL 80W90	RED/GREEN GEAR OIL 85W140	SURRENDER	KOPPER LUBE	FUEL GUARD
Lithium Complex Base					•					•		
Bentone Base		•		•								
Calcium Sulfonate Base	•		•			•					•	
Petroleum Distillate Base	•	•	•	•	•		•	•	•	•	•	•
4 Ball Weld Load (kg)	700	315-400	620	315-400	315	620				315	500	
Extreme Pressure	•	•	•	•	•	•				•	•	
Water Resistant	•	•	•	•	•	•				•	•	
Oxidation Inhibitors	•	•	•	•	•	•				•	•	
Resists Throw Off	•	•	•	•	•	•				•	•	
Food Grade						•						
Anti-Foaming							•	•	•			
High Temperature (>350°F)	•		•			•					•	
Extreme Temp. (>1500°F)										•		
Timken OK Load (kg)	70	60-70	65	60-70	60-70	60		70	70	60-70	55	
NLGI Grade	2	3	2	3	2	2				2	2	
Dropping Point	550°F	N/A	550°F	N/A	550°-600°F	550°F				550°-600°F	550°F	





Grease Terms

Understand ALL your grease can do!

LUBRICATION

A process of applying a substance to surfaces in order to separate or protect them from friction, heat, wear and energy consumption. Oils, greases, gases or other fluids may be used as lubricants.

GREASE

A grease is an oil base mixed with a thickener. Examples of base oils are petroleum oil and mineral oil. Bentone, Lithium stearate and Calcium sulfonate are common thickeners. Other substances, such as graphite, molybdenum disulfide or copper can be added to modify or enhance a grease's lubricating properties.

BENTONE

Bentone is a high-quality, extreme-pressure (EP), grease for lubricating industrial equipment operating under heavy loads and at high temperatures. Bentone is manufactured with high-quality, heavy paraffinic base oils and bentonite clay thickener.

CALCIUM SULFONATE

Calcium sulfonate thickeners have been in use for about 50 years. This particular type of grease has inherent extreme pressure (EP) properties which combined with the fact that it can be formulated for use in H-1 (food-grade) applications, makes it an attractive alternative to other greases. They are usually more expensive and have higher sprayoff, but possess higher salt and steam resistance.

LITHIUM COMPLEX

The most common type of grease thickener, according to the NLGI, 70% of greases contain Lithium. This type of grease adheres well to metal, performs well under heavy loads and has good water resistance, high dropping points and good shear stability.

SHEAR STABILITY

The ability of grease to maintain its viscosity when subjected to mechanical shear forces—forces caused by a material slipping along another parallel plane.

PENETRATION

A cone of specific material, weight, and finish is allowed to sink into a grease for 5 seconds at a standard temperature of 25°C (77°F). The penetration is the depth, in tenths of a millimeter, to which the cone sinks into the grease.

NLGI GRADE

The National Lubricating Grease Institute's industry standard measuring the consistency of a grease. The grades range from 000 (fluid, the consistency of ketchup) to 6 (very hard or solid, the consistency of cheddar cheese spread). QuestSpecialty's greases are rated 2 (moderately soft, like peanut butter) and 3 (semi-fluid, like vegetable shortening). Greases rated 2 are best suited for ball and roller bearings, moderately loaded and medium speed, usually applied by a gun. They are the most common greases. Those rated 3 are best for precision and high speed use wheel bearings. Also double-sealed and double-shielded type prelubed ball bearings.

VISCOSITY

A measure of a fluid's resistance to gradual deformation by stress, informally known as "thickness". The thicker a fluid, the higher its viscosity. Grease viscosity is determined by the amount and kind of thickener used as well as the thickness of the base oil.

DROPPING POINT

The temperature at which a grease changes from a semi-solid to a liquid under certain test conditions. A particular dropping point will indicate which type of soap thickener is used and if a grease is suitable for a specific application.

TIMKEN OK LOAD

A test to determine if EP (extreme pressure) additives are present in a grease. The result is expressed in kilograms and a special machine is used to conduct the test. A bearing rotating at high speed is brought into contact with a square steel test block under load. Grease is applied to the contact area and the load is increased until the test block is marked. The highest pressure measured before the block is marked is the Timken OK Load.

FOUR BALL WELD LOAD

A high pressure tolerance test for grease. The test grease is applied to four ball bearings. Pressure to roll the balls is applied until enough heat is generated to weld the balls together. The load is measured in kilograms.

EXTREME PRESSURE (E.P.) ADDITIVE

Chemicals added to a grease which react with metal surfaces to protect them under conditions of heat or pressure high enough to cause the base oil to break down. They help maintain the distance between the lubricated surfaces.

HIGH IMPACT GREASE

Grease which has been tested for degree of splatter or resistance to splatter when struck by a heavy metal object. Two metal surfaces are covered with grease. Each surface is surrounded by a plastic wall to display any grease that is splattered. Two hammers mounted on a spring loaded pivot are released at a prescribed force to measure the amount of impact required to splatter the grease.

DEMULSIFICATION

The process of adding chemicals to a lubricant to prevent it from mixing with water, or to keep it from breaking down and becoming thin and milky.

GEAR OIL

Gear oil is a lubricant made specifically for transmissions, transfer cases, and differentials in automobiles, trucks, and other machinery. It is of a higher viscosity to better protect the gears. The high viscosity ensures transfer of lubricant throughout the gear train.

MULTIGRADE OIL

A multigrade oil has two viscosity or flow grades, expressed as a number, W and a number, e.g. 10W140. The W stands for winter. The lower the number before the W, the thinner it is, which is desirable in the winter because oil thickens at lower temperatures. The number after the W means that at 100°C, the viscosity falls within given limits. The higher the number, the thicker the oil, which is desirable in the summer because the oil thins out at high temperatures. The oil has been tested at both grade requirements. The multigrade capability allows one oil to be used year round.

QuestSpecialty greases are available in cases of 10 x 14 oz. tubes, 35 lb. pails, and 120 and 400 lb. drums. Grease tube master packs of 3 cases and 5 cases are also available for an extra charge.

Gear and hydraulic oils are available in 5 gal. pails and 55 gal. drums.

Fuel Guard is available in 12x1 quarts, 5 gal. pails and 55 gal. drums.





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