

Power Up **ThixOgrease™** is Specifically Engineered to:

- **Resist Moisture**
- **Protect Over a Wide Temperature Range**
- **Protect Against Corrosion**
- **Minimize Lubrication Frequency**
- **Extend Component Life**

When you have extreme conditions and need outstanding results, ThixOgrease™ is in a class of its own. Offering exceptional lubrication for all types of bearings, pins, bushings, king pins and valves, ThixOgrease™ applications are endless: aviation, agriculture, industrial, marine, forestry, and heavy equipment. ThixOgrease™ is also ideal for application with centralized lube systems and operates efficiently under extreme loads and pressures. It has consistently proven itself in industries such as aviation where there is more on the line than simply reducing friction.

Save wear, time and money. Trust ThixOgrease™.

Resist Moisture

In addition to the superior additive technology used in its manufacture, ThixOgrease™ uses an overbased calcium sulfonate thickener which offers exceptional salt spray and water-corrosion resistance. The severe salt fog spray test (ASTM B117) exhibits a water resistance in excess of 20 times that of many conventional lithium based greases. This combination creates a grease that excels at repelling water ingress while minimizing oil separation and grease hardening. This makes ThixOgrease™ ideal for operation in marine environments, pulp and paper, suspension bridges, automotive or other applications exposed to salt conditions.

Protect Over a Wide Temperature Range

ThixOgrease™ has a wide operational range from -18°C to 250°C (0°F to 482°F) making it an ideal product for use in centralized lubrication systems.



The Kelowna division of Peters Bros. has seen great success in bearing life on their paving mix plant. The above conveyor bearing adjacent to the burner runs in upwards of 300°F during operation. A second critical area is the roller bearings under the mix drum. Prior to applying **ThixOgrease** in these areas bearing life was limited to 1 year of operation.

ThixOgrease has increased bearing life to 3 years, and still running.

Peters Bros. Construction - Penticton, BC.

Protect Against Corrosion

Rust and corrosion inhibitors fight oxidation, withstand contamination and protect critical components while a high quality base oil ensures a longer operational lifetime.

Minimize Lubrication Frequency & Extend Component Life

ThixOgrease exhibits a high shear stability minimizing oil separation and prolonging the life of grease which results in reduced relubrication intervals. Extreme pressure and anti-wear additives reduce friction and component wear prolonging the life of the equipment.

ThixOgrease™ is a next generation, multi-purpose grease from Power Up. It provides superior protection in the boundary lubrication regime. ThixOgrease™ is ideal for applications where high loads, extreme pressure or high temperature cause serious metal to metal contact and wear. Superior water washout resistance and rust corrosion inhibition allow ThixOgrease™ to excel in areas where conventional greases fail.

Available in the following convenient sizes:

10 tube carton - 425 gram (15 oz.) cartridges

60 tube case - 425 gram (15 oz.) cartridges

17 kilogram (37.4 lb) pails

55 kilogram (121 lb) kegs

180 kilogram (396 lb) drums

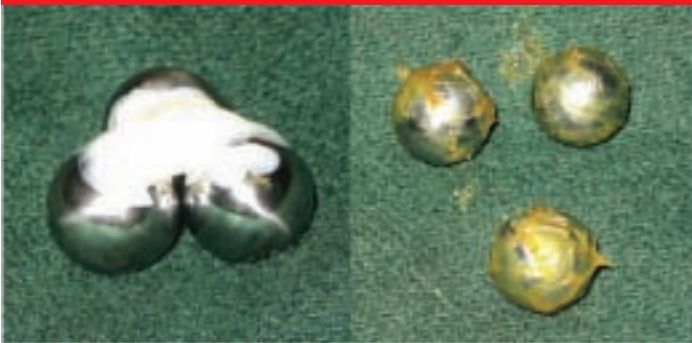
Testing has shown that ThixOgrease™ is superior in numerous categories compared to conventional greases. Standard tests from the NLGI (National Lubricating Grease Institute) and ASTM (American Society for Testing Materials) confirmed that ThixOgrease™ is highly efficient for use in centralized grease systems and offers superior performance in applications including industrial, automotive, marine, farming and mining.

TEST RESULTS PROVE IT!

- Superior performance at elevated temperatures
- Maintains consistency over extended use, extreme pressure and heat
- Highly compatible with residual greases
- Excellent resistance to water and oxidation
- Minimal contamination risk

High Temperature Capabilities				
Grease Type	THIXOGREASE	Lithium Complex	Aluminum Complex	Poly* Urea
NLGI Grade	2	2	2	2
Dropping Point D566				
°F	570+	570	550	463
°C	300+	300	288	239
Wheel Bearing Leakage D1273 Modified at 163°C Grams	0.2	3.1	1.2	0.8
Lubrication Life D3336 at 300°F (149°C), No. 204 Bearing, 10,000 RPM Hrs. to Failure	800	580	97	420
Reversibility	Yes	No	Yes	No

4-Ball EP Test on THIXOGREASE



Picture 1: Steel balls welded together in standard 4 ball EP wear with traditional Lithium complex grease

Picture 2: Steel balls coated in Thixogrease remain unmarked and moving freely in 4 ball EP wear test with 4 times the load of the previous test.

Typical Properties of THIXOGREASE

Property	Method	Result
Color Texture		Brown Smooth, buttery
NLGI Grade		NLGI #2
Penetration	ASTM D217	280
Dropping Point	ASTM D2265	> 570°F (300°C)
Kinematic Viscosity of Base Oil @40°C (104°F) @100°C (212°F)	ASTM D445	139 cSt 13 cSt
Viscosity Index	ASTM D2270	84
Pour Point	ASTM D97	-5°F (-15°C)

Special Notations on THIXOGREASE

Operating Temperature Range:	Power Up Thixogrease has been proven to be suitable for applications at temperatures from 0°F to 480°F (-18°C to 250°C). It is easily pumpable at extremely low temperatures and has a dropping point greater than 570°F (300°C), allowing its use in applications with brief excursions to 500°F (260°C).
NLGI Specifications:	Power Up Thixogrease meets or exceeds the specifications of the NLGI GB-LB classification for heavy duty chassis lubrication and medium wheel bearing applications.
Compatibility:	Where possible, it is always recommended that the old grease be cleaned out of any bearing prior to the application of a different type or grade of grease. The grease compatibility chart provided is a general guide only and may not be true for all brands of the given greases.



"In our Latourneau 800 we were having repeated failures on our bucket tilt pins. After switching to ThixOgrease, we went an entire year without any failures saving us over \$100,000 per year on this one application in part replacement, maintenance costs and downtime. We also cut our grease consumption down 67% because ThixOgrease does not separate."

Maintenance Supervisor, Obed Mountain Coal - Alberta, Canada

ThixOgrease is currently available in following grades:

NLGI No. 0 - Most suitable for centralized grease systems, this is readily pumpable and will not bleed excessively or age harden.

NLGI No. 2 - A multi-purpose grease when superior lubrication performance is required. ThixOgrease No. 2 is successfully used in the industrial, automotive, marine, farming, mining, forestry and construction industries.

Thixo Tak 2 - Also available is a tackier version of ThixOgrease for high speed applications where grease retention is required, and for fill for life bearings.