ULTRA-PERFORMANCE GREASE®

Multi-Purpose Synthetic Grease

Beyond Synthetic™

Beyond Synthetic™

Ultra-Performance® Grease satisfies a wide range of grease requirements and is recommended for bearings and general purpose use.

Ultra-Performance® Grease is high performance, multi-service, aluminum complex, synthetic grease. Its outstanding performance is achieved through its superior blend of synthetic base oils plus Synslide® additive technology, Royal Purple's unique, proprietary, noncorrosive, EP additive technology.

Ultra-Performance® Grease significantly increases bearing life and equipment reliability and makes bearings run smoother, cooler, quieter, longer and more efficiently.

Synslide® additive technology makes the difference!

Synthetic oils enable Royal Purple to make superior lubricants, but it is Royal Purple's advanced Synslide® additive technology that gives Royal Purple's EP lubricants their amazing performance advantages. Synslide® additive technology truly is *beyond synthetic.*™

Synslide® additive technology is Royal Purple's toughest EP lubricating film. It provides maximum protection under boundary lubrication conditions typically caused by heavily loaded, slow speed and / or shock-load conditions.

This tough, proprietary, slippery film significantly improves lubrication and reduces wear by increasing both oil film thickness and oil film toughness, which helps to prevent metal-to-metal contact.

Synslide® additive technology is noncorrosive, displaces water from metal surfaces and excels in protecting equipment in wet environments. It also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

Performance Advantages:

- **Aluminum Complex Grease Base**
  Ultra-Performance® Grease has superior shear stability, water resistance and high temperature performance.
- **Greater Wear Protection**
  Ultra-Performance® Grease's extraordinary film strength provides superior protection to anti-friction and journal bearings.
- **Reduces Vibrations**
  The tough oil film of Ultra-Performance® Grease coupled with its ability to micro-polish contacting bearing elements provides superior bearing lubrication.
- **Multi-Temperature Service**
  Ultra-Performance® Grease combines both good low temperature pumpability and excellent high temperature stability. It is suitable for centralized pressure systems.
- **Exceptional Water Resistance**
  Ultra-Performance® Grease will not mix with water and has great resistance to water wash off. It excels in tough subsea applications.
- **Outstanding Oxidation Stability**
  Ultra-Performance® Grease promotes clean, deposit-free bearings for better performance and provides a margin of safety for missed or extended relubrication intervals.
- **Excellent Rust and Corrosion Protection**
  Ultra-Performance® Grease protects metal surfaces in wet or dry environments during operation and shutdown.
- **Environmentally Responsible**
  Ultra-Performance® Grease components are TSCA listed and meet EPA, RCRA and OSHA requirements.

Royal Purple, Ltd. • 1 Royal Purple Lane • Porter, Texas 77365
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ROYAL PURPLE

Beyond Synthetic™

Typical Properties*	NLGI Grade 0	1	2	3
Viscosity				
cSt @ 40˚C	150	150	150	150
Texture	Buttery	Buttery	Buttery	Buttery
Drop Point ˚F	520	520	520	520
Thickener Type (soap base)	Alum. Complex	Alum. Complex	Alum. Complex	Alum. Complex
% Soap Base	5.3	6.7	7.5	10.0
Fluid Type	Multi-Synthetic	Multi-Synthetic	Multi-Synthetic	Multi-Synthetic
Specific Gravity	0.90	0.90	0.90	0.90
Density (lbs./gal.)	7.5	7.5	7.5	7.5
Cone Penetration, mm				
Unworked	358	310	293	227
Worked, 10,000X	347	330	295	196
Worked, 100,000X	<10%	<10%	<10%	<10%
Timken OK Load, Lbs.	100	100	100	100
Four Ball EP Test				
Load Wear Index, kg	65.2	65.2	65.2	65.2
Weld Point, kg	400	400	400	400
Four Ball Wear Test				
Scar diam, mm, 40kg				
1200 rpm, 165˚F, 1hr.	<0.7	<0.7	<0.6	<0.7
Oxidation Resistance				
PSI Drop, 100 hrs	<5.0	<5.0	<5.0	<5.0
Copper Strip Corrosion	1A	1A	1A	1A
Water Spray Off, %	<5.0	<5.0	<5.0	<5.0
Oil Separation				
(FTMS 791B, M 321.2)	<5.0	<5.0	<5.0	<5.0
Salt Fog / Spray Corr. Resist.	<5.0	<5.0	<5.0	<5.0
100˚F / 20% Salt (NACL),				
360+ Hours	Pass	Pass	Pass	Pass

*Properties are typical and may vary

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