



# ENDUROSYN® GREASE

## MULTI-PURPOSE SYNTHETIC GREASE

### BEYOND SYNTHETIC™

Endurosyn is a high performance, multi-service, calcium sulfonate complex, synthetic grease. Its outstanding performance is achieved through a superior blend of synthetic base oils and additives, plus Royal Purple's unique, proprietary Synslide additive technology. The superior Royal Purple lubricant formulation combined with a premium calcium sulfonate thickener provides unsurpassed protection against friction, wear and corrosion, and is inherently water resistant.

Endurosyn Grease significantly increases bearing life and equipment reliability and makes bearings run smoother, cooler, quieter, longer and more efficiently. Endurosyn Grease satisfies a wide range of grease requirements and is recommended for bearings and general purpose use.

#### 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, Royal Purple's tough, EP lubricating film, provides maximum protection under boundary lubrication conditions typically caused by heavily loaded, slow speed and / or shock load conditions. This tenacious, slippery film significantly improves lubrication and reduces wear by increasing the oil film thickness and toughness, which helps to prevent metal-to-metal contact in gears and bearings.

Synslide additive technology is noncorrosive to gears and bearings, including case-hardened gears that are easily pitted by conventional sulfur-phosphorus EP oils. Synslide additive technology 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

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



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TYPICAL PROPERTIES*	ASTM METHOD	NLGI GRADES	
		1	2
Thickener Type (Soap Base)	---	Calcium Sulfonate Complex	Calcium Sulfonate Complex
Viscosity, Fluid	D445		
cSt @ 40°C		150	150
Dropping Point, °F	D2265	600+	600+
Copper Corrosion Test	D4048	1A	1A
Cone Penetration Test, mm	D217		
Worked, 60X		329	274
Water Washout Test	D1264		
% Loss @ 175°F		4.6	1.7
Water Spray Resistance Test	D4049		
% Loss @ 100°F		24	15
Four Ball EP Test	D2596		
Load Wear Index		98.76	131.61
Weld Load, kg		800	800
Four Ball Wear Test, mm	D2266	0.68	0.63
Oil Separation Test	D1742		
(FTMS 791B, M 321.2)		0	0
Oxidation Resistance	D942		
PSI Drop, 100 Hrs		<5.0	<5.0
Density, lbs/g	D4052	8.586	8.787

\*Properties are typical and may vary