



COUPLING GREASE

SYNTHETIC COUPLING GREASE

Royal Purple Coupling Grease is a lithium complex, high film strength grease that provides superior resistance to oil separation from the high centrifugal forces generated by couplings. It is formulated with high viscosity synthetic oils and tacky, synthetic polymers, plus Royal Purple's proprietary Synslide additive technology to provide the tenacity and film strength necessary to protect against heavy loads and high centrifugal forces. Formulated specifically for use in gear, grid and other lubricated shaft couplers, Coupling Grease has superior flowability to get into every area of the coupler, and the tackiness and adhesiveness to resist being flung from high load and sliding contact points. Its high-viscosity effectively separates sliding components further preventing wear.

Coupling Grease gains its performance advantages through its superior blend of synthetic base oils plus Synslide® additive technology, Royal Purple's unique,

proprietary, noncorrosive, EP additive technology. Synslide® additive technology gives Royal Purple's EP (extreme pressure) oils and greases their amazing performance advantages. Synslide® additive technology provides maximum protection under boundary lubrication conditions typically caused by heavy loads, slow operating speeds, and 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.

Coupling Grease is completely safe and non-corrosive to all ferrous alloys and yellow metals used in the manufacture of gears, bearings and other rotating equipment components, including case-hardened gears that are easily pitted by conventional sulfur-phosphorus EP oils. Coupling Grease significantly increases coupling life and equipment reliability.

PERFORMANCE ADVANTAGES

SUPERIOR HIGH-TEMPERATURE PERFORMANCE - Lithium complex thickener provides a high dropping point and high-temperature stability to the grease

OUTSTANDING WEAR PROTECTION - Synslide® additive technology and lithium complex thickener drastically increase load-carrying ability, preventing metal-to-metal contact

EXCEPTIONAL ALL-TEMPERATURE FLOW - Migrates to all wear areas of the coupling

REDUCED LEAKAGE AND FLING-OFF - Enhance tackiness keeps Coupling Grease in place, reducing mess and grease usage

GREATER CORROSION PROTECTION - Advanced anti-corrosion additives along with the lithium complex thickener provide unmatched corrosion protection for the lubricated components



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TECHNICAL DATA

Property	Test Method	
NLGI		1
Thickener Type		Lithium Complex
Worked Penetration	ASTM D217	315
Base Oil Viscosity @ 40°C, cSt	ASTM D445	2,995
Base Oil Viscosity @ 100°C, cSt	ASTM D445	112
Dropping Point, °C (°F)	ASTM D2265	228 (442)
Rust Protection	ASTM D1743	PASS
Copper Corrosion, 24hr @ 100°C	ASTM D4084	1B
4-Ball EP Test, Weld Load, kg	ASTM D2596	400
4-Ball EP Test, Load Wear Index	ASTM D2596	54.7
Useful Temperature Range, °C (°F)	ASTM D5800	-20 to 177 (-4 to 350)

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