



THERMAX GREASE

SPECIAL PURPOSE EP GREASE

Thermax Grease is a special purpose, ultra-tough, multi-synthetic, aluminum complex EP grease. It is designed to lubricate equipment requiring grease formulated with a high viscosity base oil. Thermax Grease is formulated with advanced synthetic base oils plus Royal Purple's proprietary, extreme pressure (EP) Synslide additive technology, which forms a chemical film capable of carrying loads much greater than other EP oils and greases under boundary conditions. Thermax Grease also has good oxidation stability, greatly resists water washout and provides excellent protection against rust and chemical attack of both ferrous and nonferrous metals. Thermax Grease excels in bearings or sliding surfaces that operate at low speeds, under heavy loads or shock loads, at high temperatures or in wet environments. Typical applications can be found in steel mills, paper mills or in marine service.

Royal Purple's Thermax Grease gains its incredible performance from Synslide®. Synslide® is Royal Purple's unique, proprietary, noncorrosive EP additive technology. Synthetic base oils and advanced additive chemistry

enable Royal Purple to make superior lubricants, but it is Synslide® additive technology that 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.

Thermax 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. Ultra-Performance Grease is a superior multi-purpose EP grease that significantly increases bearing life and equipment reliability, and makes bearings run smoother, cooler, quieter, longer and more efficiently.

PERFORMANCE ADVANTAGES

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

OUTSTANDING WEAR PROTECTION – Synslide® additive technology and high viscosity provide unmatched lubricant film strength, preventing metal-to-metal contact

EXCEPTIONAL WATER RESISTANCE – Will not mix with water and has great resistance to water wash off, making it an excellent choice for applications in steel mills, pulp and paper, and off-shore environments

REDUCED VIBRATION – The tough lubricating film cushions load and Synslide® micro-mends contacting bearing surfaces

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



THERMAX GREASE

SPECIAL PURPOSE EP GREASE

TECHNICAL DATA

Property	Test Method	
NLGI Grade		2
Thickener Type		Al Complex
Worked Penetration	ASTM D217	285
Viscosity @ 40°C, cSt	ASTM D445	628
Viscosity @ 100°C, cSt	ASTM D445	46.3
Dropping Point, °C (°F)	ASTM D2265	272 (522)
Oil Separation Test, %	ASTM D1742	4.7
Water Washout, %	ASTM D1264	4.1
Rust Protection	ASTM D1743	PASS
Copper Corrosion	ASTM D4084	1B
4-Ball EP Test, Weld Load, kg	ASTM D2596	400
4-Ball EP Test, Load Wear Index	ASTM D2596	48.7
Useful Temperature Range, °C (°F)	ASTM D5800	-40 to 177 (-40 to 350)

8/1/2022