



THERMAX™ 680 GREASE

SPECIAL PURPOSE EXTREME PRESSURE GREASE WITH SYNSLIDE™

Thermax™ 680 Grease is a special purpose, ultra-tough, aluminum complex extreme-pressure grease formulated with very high-viscosity synthetic base oils. It is designed for equipment requiring a grease with high base-oil viscosity to maintain film strength under low-speed, heavily loaded and shock-loaded conditions. Thermax 680 Grease is formulated with our proprietary Synslide™ noncorrosive EP additive technology, which increases film strength and load-carrying capability under boundary lubrication conditions.

Thermax 680 Grease also provides good oxidation stability, excellent resistance to water wash-off and wash-out, and strong protection against rust and corrosion on ferrous alloys and yellow metals – helping extend equipment life and reduce total cost of ownership. It excels in bearings and sliding surfaces operating at low speeds, under heavy or shock loads, at elevated temperatures, or in wet environments.

Thermax 680 Grease is compatible with and noncorrosive to ferrous alloys and yellow metals commonly used in gears, bearings and other rotating equipment components, including case-hardened gears that can be pitted by conventional sulfur-phosphorus EP oils and greases. It is commonly used in steel mills, paper mills, marine environments, and other demanding operating conditions.



PROPRIETARY ADDITIVE TECHNOLOGY – SYNSLIDE™

Synslide™ noncorrosive, EP additive technology provides superior protection against boundary lubrication conditions and centrifugal forces typically caused by heavy loads, shock loads and slow operating speeds. It 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 base-oil viscosity provide strong film strength to prevent metal-to-metal contact under heavy loads.

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

REDUCED VIBRATION – A tough lubricating film cushions loads and maintains separation, while Synslide micro-mends contacting bearing surfaces to help reduce vibration and promote smoother operation.

GREATER CORROSION PROTECTION – Advanced corrosion inhibitors, together with the aluminum complex thickener, provide superior corrosion protection for lubricated components.



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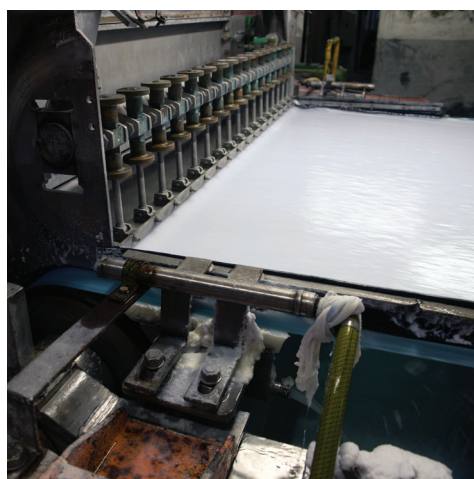
SPECIAL PURPOSE EXTREME PRESSURE GREASE WITH SYNSLIDE™

TYPICAL APPLICATIONS & INDUSTRIES

- Bearings and gears in large rotating equipment
- Construction
- Marine and offshore
- Mining
- Paper and pulp mills
- Steel mills
- Water and wastewater treatment facilities
- Wind power generation

TECHNICAL DATA

Thickener Type	Aluminum Complex
Color	Purple
NLGI Grade	2
Worked 60 Penetration ASTM D217	285
Dropping Point °C (°F), ASTM D2265	272 (522)
Base Fluid Characteristics	
Viscosity @ 100°C , cSt, ASTM D445	46.3
Viscosity @ 40°C , cSt, ASTM D445	628
Corrosion Prevention DI H ₂ O, ASTM D1743	PASS
Oil Separation 24 hrs @ 25°C, 1.75 kPa (0.25 psi), % Bleed, ASTM D1742	4.7
Four-Ball EP ASTM D2596	
Weld Point, kgf	400
Load Wear Index, kgf	48.7
Water Washout @ 175F, % loss, ASTM D1264	4.1
Copper Corrosion 24 hrs @ 100°C, ASTM D4048	1B



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