



LE PRODUCTS
MANUFACTURED
UNDER AN ISO
9001:2000
CERTIFIED
QUALITY SYSTEM

1299 ALMAPLEX® ULTRA-SYN LUBRICANT

The Ultimate Heavy Duty Synthetic Grease

1299 ALMAPLEX® Ultra-Syn Lubricant is engineered to provide optimum performance capabilities under extreme equipment operating conditions.

ALMAPLEX Ultra-Syn Lubricant contains LE's exclusive additives, ALMASOL® and QUINPLEX®. 1299 is an aluminum complex thickened grease containing an ISO 460 viscosity synthetic base fluid. This combination provides excellent performance in the presence of water, low-temperature pumpability down to 30°F (-1°C), and superior high-temperature functionality.

1299 ALMAPLEX Ultra-Syn provides up to 73% higher extreme pressure (EP) performance than competitive greases in the ASTM D-2596 Four Ball EP Test. In the ASTM D-4049 Water Spray Off Test, competitive grease lost almost six times more grease than ALMAPLEX Ultra-Syn Lubricant.

1299 ALMAPLEX Ultra-Syn Lubricant offers the potential for energy savings and reduced operating temperatures. It delivers heavy duty performance, reliability, exceptional quality and versatility, all of which can positively impact equipment uptime and the user's bottom line profitability.



FEATURES

- ⓁE High load carrying capacity through use of proprietary extreme pressure additives.
- ⓁE Outstanding low and high temperature performance.
- ⓁE Enhanced thermal and oxidation stability for longer service life.
- ⓁE Extraordinary cohesion and adhesion to improve lubricating film strength.
- ⓁE Excellent resistance to water spray off and water wash out.
- ⓁE Superior protection against wear and exceptional performance under heavy and shock loading.
- ⓁE Broad operating temperature range -40°F (-40°C) to 450°F (232°C).

APPLICATIONS

Construction, agricultural and mining equipment
Chassis
Wheel bearings
Filter presses, Dewatering presses
Steel mill hot and heavily loaded bearings
Extruders
Hammer mills
Ball mill and kiln pinion support bearings.
Paper mill wet end, press rolls, felt rolls and calendar stack bearings.

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PHYSICAL CHARACTERISTICS – TYPICAL:

1299

Thickener Type	Aluminum Complex
NLGI Grade	2
Color	Gold
Texture	Stringy
Penetration ASTM D 217	
Unworked, 0-Stroke	285
Worked, 60-Stroke	287
Worked, 10,000-Stroke	290
Base Oil Viscosity @ 40°C	460
Dropping Point °C (°F)	273 (523)

PERFORMANCE TEST RESULTS – TYPICAL:

Copper Strip Corrosion, ASTM D 4048	1b
Timken EP, ASTM D 2509, lbs.	55
Rust Prevention, ASTM D 5969, 3% Sea Water	Pass
Four Ball EP, ASTM D 2596	
LWI	69.7
Weld Point, kg	315
Four Ball Wear, ASTM D 2266, mm	0.49
Water Spray Off, ASTM D 4049, % loss	6.6
Water Washout @ 176°F (80°C), ASTM D 1264, % loss	0.45
EMCOR Rust Test, ASTM D 6138 (Distilled water)	
Bearing Value	0,0,0
Lincoln-Ventmeter @ 30°F (-1°C), PSI	300
Low Temperature Torque, ASTM D 4693 @ -40°F (-40°C), N-m	<10
U.S. Steel Mobility of Grease @ 0°F (-18°C)	2.4 g/min
Oil Separation, ASTM D 1742, % loss	<2.0
High Temperature Life, ASTM D 3527	120.5 hrs.
Leakage Tendencies, ASTM D 4290, % loss	0.92

BENEFICIAL QUALITIES:

100% synthetic ISO 460 viscosity range base fluids.
Compounded with long-lasting corrosion inhibitors and extreme pressure (EP) additives.
Excellent resistance against corrosion by seawater as demonstrated by ASTM D5969.
Contains ALMASOL®, LE's exclusive wear-reducing additive.
Synergistic combination of synthetic base fluids and additives provide excellent high temperature oxidation resistance and thermal stability.
Contains QUINPLEX®, an exclusive LE additive that enhances lubricant performance.
Good low temperature characteristics.
Synthetic base fluids provide excellent low volatility properties.
Resistant to mechanical shear.
Aluminum complex thickener system provides grease reversibility: reverts back to grease consistency after high temperature exposure.



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