



# 9901 Almasol<sup>®</sup> Syntemp<sup>®</sup> Lubricant

**Heavy-duty synthetic lubricant specifically designed for high temperature applications.**

LE's Almasol<sup>®</sup> Syntemp<sup>®</sup> Lubricant is a high temperature extreme pressure (EP) lubricant made from a very heavy synthetic fluid and a non-melting base. It is specially formulated to provide exceptional protection at temperatures at which petroleum oils would completely oxidize (or carbonize).

Almasol Syntemp Lubricant is excellent for use on large open gears exposed to very high temperatures. It is also recommended for use on kiln girth gears, large industrial gearing, oven chains, sliding surfaces, large slow moving (friction) bearings and similar applications.

Contains Almasol<sup>®</sup>, LE's exclusive wear-reducing additive, which protects against metal-to-metal contact and also serves to reduce friction and heat. Almasol Syntemp Lubricant has exceptional water resistance and thus, remains unaffected by boiling water and steam. It also contains special rust inhibitors that prevent rust and corrosion.

#### USER BENEFITS:

##### Has high oxidation resistance

- Even at extreme temperatures 9901 ALMASOL Syntemp Lubricant will not leave undesirable oxidation products such as varnish or gum.

##### High load carrying capacity

- Ensures protection from wear even under the heaviest of loads. The high film strength of this product serves to cushion gear teeth when heavy or shock loads are encountered.

##### Non-melting

- Is formulated from a non-melting base which ensures that the lubricant will not liquify and run out of bearings or run off gears, cables or chains.

**Reduced equipment failures** due to superior wear and corrosion protection.

**Elimination of deposit build-up;** does not form carbon or varnish deposits.

Less lubricant is needed due to superior oxidation resistance.

#### TYPICAL APPLICATIONS:

- Open Gears
- Low Speed Plain Bearings
- Cables
- Chains
- Sliding Surfaces

#### WHAT IS ALMASOL<sup>®</sup>?

Almasol is LE's exclusive wear-reducing additive which has an affinity for metal similar to polar attraction. It attaches itself to working surfaces in a single microscopic layer, yet it will not build on itself or affect clearances. This microscopic layer possesses tremendous load-carrying capacity, is impervious to acid attack and minimizes metal-to-metal contact and the resulting friction and wear. When added to LE lubricants, it gives an extra dimension of protection available in no other lubricant.



**LUBRICATION ENGINEERS, Inc.**<sup>®</sup>  
LEADERS IN LUBRICANTS

LE operates under an ISO 9001  
Certified Quality System.

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# TECHNICAL DATA BULLETIN

**9901  
Almasol®  
Syntemp® Lubricant**

LEADERS IN LUBRICANTS

## DESCRIPTION:

High temperature lubricant made from a very heavy synthetic fluid and a nonmelting base. It is specially formulated to provide exceptional protection at temperatures at which petroleum oils would completely oxidize or carbonize. Contains Almasol®, LE's exclusive wear-reducing additive.

A very tacky, dark green, waterproof lubricant.

## PHYSICAL CHARACTERISTICS-TYPICAL:

Worked Penetration	@77°F. (25°C.)	265-295
Color		Green
NLGI Grade		2
Texture		Very Tacky
Base Thickener		Bentone
Dropping Point, °F. °C.)		None
Base Fluid:		
Viscosity		
	SUS @ 100°F.	42,700
	SUS @ 210°F.	1,025
	CSt @ 40°C.	7,630
	CSt @ 100°C.	210

## PERFORMANCE TEST RESULTS:

Timken, ASTM D2509, lbs.	45
Oxidation Stability, ASTM D942, psi drop @ 100 hrs.	3

## APPLICATION:

Open gears (kiln girth gears), oven chains, large bearings, etc., operating in a high temperature environment.

## RECOMMENDATION:

Use where an extremely high temperature, synthetic lubricant is required. This lubricant is typically designed for large bearings operating at very slow speeds.

**LUBRICATION ENGINEERS, Inc.**

**BENEFICIAL QUALITIES:**

Long lasting under high temperatures; much longer than ordinary lubricants.

Very sticky and adherent to metal.

Protects against rust and corrosion.

Excellent mechanical stability.

EP (Extreme Pressure) characteristics.

Remains plastic down to 0°F. (-18°C.).

Highly water resistant. Resists boiling water or high temperature steam.

Passes ASTM D4049 water spray-off test -- less than 5.0% spray-off.

Timken OK load of 45 lbs.

**LI50053  
TD-2502  
Rev. 12-06  
SS122100**