

Product Information



Almasol® Pure Mineral Gear Lubricant (401)

Provides Exceptional Gear Protection without EP Additive

Almasol® Pure Mineral Gear Lubricant (401) is a balanced formulation of base oil, rust and oxidation inhibitors, wear-reducing agents, and other additives that provides the highest level of protection possible without the inclusion of an extreme pressure additive. When transmission and gearbox manufacturers specify a “pure” or “straight” mineral oil gear oil, it should not contain a chemically active EP agent; other additives, however, are still acceptable for inclusion. In addition to other highly desirable additives, the Almasol 401 formulation contains Almasol, LE’s exclusive wear-reducing additive that protects against premature wear and shields metal against corrosive attack.

Beneficial Qualities

Longer Gear Life

- Reduces wear with excellent film strength, lubricity and wear-reducing additives
- Climbs gears immediately at startup, assuring immediate lubrication
- Stays in place, even after equipment remains idle for extended periods
- Reduces operating temperatures over ordinary gear oils

Longer Oil Life

- Withstands elevated temperatures without oxidizing and forming sludge
- Resists formation of rust and corrosive acids that can result from moisture
- Is nonfoaming in service

Lower Operating Costs

- Ensures longer gear and lubricant life
- Reduces downtime
- Reduces expenses for labor and parts
- Does not affect seals

Available Grades

- ISO 220 / SAE 110



Proprietary Additive

LE’s proprietary additives are used exclusively in LE lubricants. Almasol® Pure Mineral Gear Lubricant contains Almasol.

Almasol® solid wear-reducing additive is able to withstand extremely heavy loads, chemical attack and temperatures up to 1,900°F (1,038°C). It is attracted to metal surfaces, forming a microscopic layer but not building on itself or affecting clearances. Almasol minimizes metal-to-metal contact and the resulting friction, heat and wear.





Almasol® Pure Mineral Gear Lubricant

	<u>401</u>
Color	Purple
ISO VG / SAE Grade	220 / 110
AGMA Grade	5 R&O
Relative Density @ 60°F/60°F, ASTM D1298	0.882
Viscosity @ 100°C, cSt, ASTM D445	19.98
Viscosity @ 40°C, cSt, ASTM D445	230.2
Viscosity Index ASTM D2270	100
Flash Point °C (°F), ASTM D92	280 (536)
Pour Point °C (°F), ASTM D97	-18 (0)
Rust Test 4 hrs @ 60°C, Sea H2O, ASTM D665B	Pass
Evaporation 22 hrs @ 100°C, % loss, ASTM D972	0.6



Performance Requirements Met or Exceeded

- API GL-1
- USDA H2

Typical Applications

- Transmissions requiring a pure mineral oil or GL-1 gear oil
- Standard truck transmissions, including Road Ranger, that do not use EP gear oils, including some dump trucks and bulk feed trucks
- In place of SAE 50 engine oil in transmissions, final drives, etc.
- Power takeoff systems
- Snow cat machines (as hub oil)
- Gearboxes requiring a pure mineral oil or an R&O non-EP gear oil
- Vacuum pumps

Note:

- Not for use where GL-4 or GL-5 fluids are recommended
- Not for use in automatic, semi-automatic or hydraulic transmissions, or in common sump systems combining gear lubricant, hydraulic oil and power steering fluid