



TECHNICAL DATA BULLETIN

**401
ALMASOL®
Pure Mineral Gear Lubricant**

DESCRIPTION:

A high quality R & O (rust and oxidation) inhibited SAE 90, ISO 220 pure mineral gear lubricant. Contains no active EP (extreme pressure) additives.

Contains ALMASOL®, LE's proprietary wear-reducing additive. ALMASOL has an affinity for metal, does not affect tolerances, is chemically inert and is unaffected by temperatures up to 1900°F.

PHYSICAL CHARACTERISTICS – TYPICAL:

ISO Grade	220
SAE Grade	90
AGMA	5 R&O
Gravity, °API	28.6
Viscosity	
SUS @ 100°F	1257
SUS @ 210°F	104.3
cSt @ 40°C	239.0
cSt @ 100°C	20.8
Viscosity Index	95
Pour Point, °F (°C)	0 (-18)
Flash Point, °F (°C)	536 (280)
Color	Purple

PERFORMANCE TEST RESULTS:

Rust Test, ASTM D-655B	
24 hrs, Sea Water	Pass
Evaporation Loss @ 100°C	
ASTM D-972, wt. %	0.6

SPECIFICATIONS EXCEEDED:

API GL-1	AGMA 9005-D94 (5)	USDA H2
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APPLICATION:

Use in all transmissions and gearboxes requiring a pure mineral oil. Can be used in place of SAE 50 engine oil in transmissions, final drives, etc.

LUBRICATION ENGINEERS, Inc.

RECOMMENDATIONS:

Not for use in automatic transmissions, hydraulic or semi-automatic transmissions or in common sump systems combining gear lubricant, hydraulic oil and power steering fluid.

Not for use in gear units requiring an EP (extreme pressure) lubricant.

BENEFICIAL QUALITIES:

The ALMASOL[®] additive imparts wear-reducing properties to gear oil. Field experience in severe service shows lower running temperatures with ALMASOL than with ordinary gear oils.

ALMASOL's affinity for metal tends to seal metal surfaces and offers protection against rusting and corrosion. This "seal coat" is one layer thick and does not appreciably change tolerances. It allows metal surfaces to slide over one another with less resistance.

Reduces wear.

Very best rust protection because of special additive, which sets up barrier between metal and moisture.

Good for high temperatures because of exceptional oxidation inhibition built into lubricant.

Nonfoaming.

Does not affect seals

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