

Multi-Purpose Gear Lube

**Formulated with
Lubium® II**

SWEPACO 201 Multi-Purpose Gear Lube is a high performance single weight gear oil formulated to deliver superior performance in a wide range of mobile and industrial gearbox applications. SWEPACO's premium base stocks, proprietary *Lubium® II* anti-oxidation/anti-corrosion package and other advanced additive chemistry provide cost-efficient extended drain protection from wear, foaming, overheating, deposits, rust and water contamination. If you want to insure maximum performance and gearbox life in a wide range of applications, choose SWEPACO 201 Multi-Purpose Gear Lube.



KEY BENEFITS

- Long-drain protection for manual transmissions, industrial gearboxes, gear reducers, gear driven final drives, power take offs and differentials
- *Lubium® II* enhances thermal stability & insures proper viscosity at high temperatures
- Adhesive/cohesive additive helps eliminate start-up wear
- Controls foaming; lowers operating temperatures
- Rapid, complete water separation for easy removal
- Extends oil life as much as two to three times or more
- Helps improve fuel economy in over-the-road equipment
- Reduces energy consumption in stationary equipment
- Superior control of deposits, varnish, corrosion, sludge, rust
- Exceeds performance requirements of all major gearbox specifications and most OEMs
- Meets and exceeds API GL-5 and MT-1

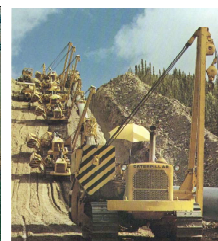
Cost-Effective, Long Drain Protection for Mobile & Industrial Gear Boxes



Mining



Energy



Construction



Agriculture

Enjoy better performance, longer drains & maximum gearbox life with SWEPACO 201.

Feature	Benefit
High VI Base Stock Blends	<ul style="list-style-type: none"> • Gives you a more uniform viscosity over a wide temperature range • Helps improve high temperature oxidation and thermal stability • Better low temperature flow characteristics help reduce start-up wear • Extends service life
LUBIUM® II	<ul style="list-style-type: none"> • Dramatically enhances oxidation and corrosion resistance
Oxidation Inhibitor	<ul style="list-style-type: none"> • Reduces oil thickening • Helps prevent sludge, varnish and carbon deposits that result from oxidation
Rust & Corrosion Inhibitor	<ul style="list-style-type: none"> • Builds a chemical bond with the surface to keep moisture and acids from penetrating and attacking surfaces
Adhesive/Cohesive Additive	<ul style="list-style-type: none"> • Enables the oil to climb when it's cold to eliminate start up wear • Reverts to the splash system when the gear box reaches operating temperatures
Anti-Foam Additive	<ul style="list-style-type: none"> • Can lower oil temperatures by 25 - 50° F by dispersing foam, releasing trapped heat
Oiliness Additive	<ul style="list-style-type: none"> • Enables the oil to penetrate the surface for better lubrication
Anti-Wear Additive	<ul style="list-style-type: none"> • Helps prevent metal to metal contact, friction and wear
Demulsifier Additive	<ul style="list-style-type: none"> • Promotes rapid water separation and easy water drain off after shut down
Pour Point Depressant Additive	<ul style="list-style-type: none"> • Gives the oil better low temperature flow characteristics • Helps to reduce low temperature start-up wear
Viscosity Index Improver Additive	<ul style="list-style-type: none"> • Less high temperature thinning and low temperature thickening
Limited Slip Differential Additive	<ul style="list-style-type: none"> • Insures proper frictional characteristics to eliminate chatter, shudder
Saves Energy	<ul style="list-style-type: none"> • Increased "oiliness" provides friction reducing film on vital metal parts to reduce power usage by as much as 30%
Long Life	<ul style="list-style-type: none"> • Drain cycles 2-3 times longer than conventional oils reduce waste oil disposal
Multi-Purpose Formulation	<ul style="list-style-type: none"> • Reduces inventory and lubrication errors to save you money
Lab Tec SM Fluid Analysis Program	<ul style="list-style-type: none"> • Maximizes equipment and lubricant life and pinpoints impending problems • Reduces waste

Typical Physical Properties *(All viscosity grades not available in all markets)*

SAE Gear Oil Grade	80W90	90	--	140	--	250
ISO Viscosity Grade	150	220	320	460	680	1000
AGMA	4 EP	5 EP	6 EP	7 EP	8 EP	8a EP
Density @ 60°F lbs/gal (kg/l)	7.39 (0.895)	7.40 (0.899)	7.45 (0.902)	7.50 (0.907)	7.60 (0.917)	7.70 (0.923)
Flash Point COC, °F (°C)	400 (204)	405 (207)	415 (213)	560 (293)	560 (293)	560 (293)
Pour Point, °F (°C)	-15 (-26)	-12 (-24)	0 (-18)	5 (-15)	15 (-10)	18 (-8)
Viscosity, 40°C, cSt	160	223	316	470	680	1010
Viscosity, 100°C, cSt	16.38	20.50	26.3	35.0	47.0	74.0
Viscosity Index	107	107	109	111	118	138
Color	Blue	Blue	Blue	Blue	Blue	Blue

Specifications Exceeded

• All AGMA Specifications • SAE J2360 • MIL-PRF-2105E • USS 224 • Mack Trucks Inc. GO-J • Rockwell-Standard 0-76 • Cincinnati Milacron • Clark MS-8 • White Motors MS00 16 • John Deere J11D • Ford M2C 105A, M2C 108C, M2C 154A • International Harvester • European & Japanese Gear Manufacturer Specifications • NSF & Health Canada requirements for use in closed systems in federally inspected food and beverage plants • CLP Din 151517 parts I, II, III • Ford WDS M2C200-C • API GL-5 and MT-1

Performance Properties

Copper Corrosion, 3 hrs @212°F (ASTM D130)	1a
FZG A/8.3/90°C, min, stage passed (DIN51354)	14+
Timken OK Load, Lbs. (ASTM D2782)	70
Four-Ball Wear, Scar Diameter, MM (ASTM D4172)	0.28
Load Carrying, High Speed Shock Loading (ASTM L-42)	
% Gear Tooth Scoring	
Ring Drive	0
Ring Coast	9
Pinion Drive	0
Pinion Coast	12
Thermal Durability@ 325°F. (Stressed ASTM L-37)	
Ridging, Spalling, Varnish	None
Chemical Corrosion, Axle/Trans (BT-10) Wgt Loss, mg.	
Steel	0.2
Aluminum	0.9
Brass	0.9
Four-Ball EP Kg.	400

Seal Compatibility - Volume % Change	
Nitrile @ 257°F., 168 Hours	2
Polyacrylate @ 257°F., 168 Hours	2.1
Fluoroelastomer @ 320°F., 168 Hours	0
Foam Test (ASTM D892)	
Sequence I, II, III	0/0/0/0
Rust-Preventative Test (ASTM D665)	
Method A & B	Clean
Demulsification (ASTM D2711)	
Water in Oil, %	0.5
Free Water, ML	83.3
Emulsion, ML	0.1
Demulsification (ASTM D1401)	40/40/0



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