

Multi-Grade Gear Lube

**Formulated with
Lubium® II**

SWEPCO 210 Multi-Grade Gear Lube is a high performance gear oil formulated to deliver superior, all-weather performance. Whether the application calls for protection of mobile or stationary gearboxes in hot or cold temperatures, superior base stock blends, proprietary *Lubium® II* anti-oxidation/anti-corrosion package and other advanced additive chemistry insure extended drain protection from wear, foaming, overheating, deposits, rust and water contamination. If you want to insure maximum performance and gear box life in all-climate service, choose SWEPCO 210.



KEY BENEFITS

- All-weather protection for manual transmissions, gear-boxes, gear reducers, gear driven final drives, power take offs and differentials
- Insures full film lubrication without channeling in cold weather start up conditions
- Superior base stock blends & *Lubium® II* insure proper viscosity over a wide temperature range
- Controls foaming; lowers operating temperatures
- Extends oil life as much as two to three times or more
- Helps improve fuel economy in over-the-road equipment
- Superior control of deposits, varnish, corrosion, sludge, rust
- Rapid, complete water separation for easy removal
- Exceeds performance requirements of all major gear box specifications and most OEMs

Superior All-Weather Protection for Mobile & Stationary Gearboxes



STATIONARY



COLD WEATHER



TRANSIT



MUNICIPAL

Enjoy better performance, longer drains and maximum gear box life with SWEPCO 210.

PERFORMANCE

Feature	Benefit
Superior 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"> • Enhances oxidation and corrosion resistance
Multi-Grade Formulation	<ul style="list-style-type: none"> • Insures full film lubrication without channeling on start-up in cold temperatures • Lower fuel/energy consumption during equipment warm up • Full SAE 140 viscosity at operating temperature
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
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
Extreme Pressure Additive	<ul style="list-style-type: none"> • Increases film strength of the oil giving it the ability to withstand extreme pressures without harming yellow metals
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
LabTec SM Fluid Analysis Program	<ul style="list-style-type: none"> • Maximizes equipment and lubricant life and pinpoints impending problems • Reduces waste

Typical Physical Characteristics

SAE Gear Oil Grade	80w140*
Density @60°F, lbs/gal (kg/l)	7.38 (0.884)
Flash point, COC, °F (°C)	400 (204)
Viscosity, 40°C, cSt	281
Viscosity 100°C, cSt	25.0
Pour Point, °F (°C) Max	-18 (-28)
Viscosity Index	113


*** Note:** SWEPCO 210 is a multi-grade product that has the viscosity of an 80w (ISO 68) in cold weather start up conditions and the viscosity of an SAE 140 (ISO 460) once it has reached operating temperatures. It is intended for applications that require an SAE 80w140 or an SAE 140 but could benefit from improved cold weather start up performance. It is not intended to be substituted where OEM recommendations call for single grade 80w or 90 weights.

Typical Performance Properties

Demulsibility (ASTM D1401)	> 38/39/3
Timken OK Load, lbs (ASTM D2782)	70
Timken, High speed lbs (Ford BJ1-5)	12.5
Shell 4-Ball Wear Test (ASTM D4172)	
Avg Friction Coefficient	0.082
Avg Scar Diameter, mm	0.28
FZG A/8.3/90°C, min, stage passed (DIN51354)	14+
Copper Corrosion, 3 hrs @212°F (ASTM D130)	1a
Seven Days Moisture Corrosion (CRC L-33)	Pass
Thermal Oxidation Stability Test	
Pentane Insoluble, % Wgt (FTM 2504)	0.08
Benzene Insoluble, % Wgt (FTM 2504)	0.05
Foam Test (ASTM D892), Sequence I, II, III	0
Gear Test (ASTM STP 512)	No rippling, ridging or pitting
Four-Ball EP kg400

Specifications Exceeded

• AGMA 6EP through 8EP Specifications • AGMA 9005 Specification • SAE J2360 • MIL-PRF-2105E • USS 224 • Mack Trucks Inc. GO-J • Rockwell-Standard 0-76B • 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



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... the cutting edge performance SWEPCO
Customers have come to expect since 1933



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