

Moly^{XP} Gear Lube

Formulated with Moly^{XP} & Lubium[®] II

SWEPCO 203 Moly^{XP} Gear Lube is a high performance single weight gear oil formulated to deliver unsurpassed performance in a wide range of severe gear box applications. Whether the application calls for protection of mobile or industrial gear boxes, SWEPCO's state-of-the-art Moly^{XP} EP additive and advanced proprietary Lubium[®] II anti-oxidation/anti-corrosion chemistry provide unsurpassed extended drain protection from wear, foaming, overheating, deposits, rust and water contamination. If you want to insure maximum performance and gear box life in severe service, choose SWEPCO 203 Moly^{XP} Gear Lube.



KEY BENEFITS

- Unsurpassed protection for manual transmissions, gear boxes, gear reducers, gear driven final drives, power take offs and differentials
- Moly^{XP} plates gears to protect against friction & wear even under severe extreme pressure conditions
- Lubium[®] II prevents high temperature oxidation
- 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
- Reduces energy consumption in stationary equipment
- Controls deposits, varnish, corrosion, sludge, rust
- Exceeds performance requirements of all major gear box specifications and most OEMs

Unsurpassed Protection for Mobile & Industrial Gear Boxes



Industrial applications



High shock applications



Extreme pressure applications

Enjoy better performance, longer drains and maximum gear box life with SWEPCO 203.

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
Moly^{XP}	<ul style="list-style-type: none"> • Adds a protective film on moving parts that dramatically reduces friction & wear • Withstands extreme pressures without harming yellow metals
LUBIUM[®] II	<ul style="list-style-type: none"> • 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 the 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
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
LabTec SM Fluid Analysis Program	<ul style="list-style-type: none"> • Maximizes equipment and lubricant life and pinpoints impending problems • Reduces waste

Typical Physical Properties

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)	7.47 (0.895)	7.50 (0.899)	7.53 (0.902)	7.57 (0.907)	7.65 (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	148	229	310	486	685	1010
Viscosity, 100°C, cSt	15.4	20.0	25.0	36.1	45.0	73.4
Viscosity Index	107	107	103	113	120	144
Color	Blue Grey	Blue Grey	Blue Grey	Blue Grey	Blue Grey	Blue Grey

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

Typical 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

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
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
Four-Ball EP kg.....	400



A Product of SPX Technology™.

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



Southwestern Petroleum Corporation

Fort Worth, Texas • Phone: (800)359-5823 or (817)332-2336 • Fax: (800)736-5823 • Web: www.swepcolube.com
N.V. Southwestern Petroleum Europe S.A. • Southwestern Petroleum Canada Ltd.