

Moly^{XP} 75w90 Synthetic Gear Lube

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

SWEPCO 202 Moly^{XP} 75w90 Synthetic Gear Lube is a high performance gear oil formulated to deliver unsurpassed, all-weather performance. SWEPCO's *Syntheon[™]* synthetic base stock, Moly^{XP} advanced EP additive and proprietary *Lubium[®] II* chemistry insure extended drain protection from wear, foaming, overheating, deposits, rust and water contamination. If you want to insure maximum performance and longer gearbox life, choose SWEPCO 202 Moly^{XP} 75w90 Synthetic Gear Lube.



KEY BENEFITS

- Extended life, all weather protection for all outside equipment
- Insures full film lubrication without channeling in cold weather start up conditions
- *Syntheon[™]* synthetic base stock blend & *Lubium[®] II* insure proper viscosity over a wide temperature range
- Moly^{XP} plates gears to protect against friction & wear
- Improves energy efficiency
- Controls foaming; lowers operating temperatures
- Extends oil life as much as two to three times or more
- Controls deposits, varnish, corrosion, sludge, rust
- Exceeds performance requirements of most OEM specifications

Unsurpassed Performance & Protection for Mobile and Industrial Gearboxes



Industrial applications



High shock applications



Extreme pressure applications

Enjoy better performance, longer drains and maximum gearbox life with SWEPCO 202.

PERFORMANCE

Feature	Benefit
Syntheon™ Synthetic Base Stock Blends	<ul style="list-style-type: none"> • Gives you a more uniform viscosity over a wide temperature range • Helps improve thermal stability and resistance to high temperature oxidation • 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
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 90 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 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
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 improve fuel economy
Long Life	<ul style="list-style-type: none"> • Drain cycles 2-3 times longer than conventional oils • Reduces waste oil
LabTecSM Fluid Analysis Program	<ul style="list-style-type: none"> • Maximizes equipment and lubricant life and helps identify impending problems

Typical Physical Characteristics

SAE Gear Oil Grade	75w90
Density @60°F, lbs/gal (kg/l)	7.21 (0.865)
Flash point, COC, °F (°C)	410 (210)
Viscosity, 40°C, cSt	81.33
Viscosity 100°C, cSt	14.76
Pour Point, °F (°C) Max	-49 (-15)
Viscosity Index	191

*** Note:** SWEPCO 202 is a multi-grade product that has the viscosity of an SAE 75w (ISO 32) in cold weather start up conditions and the viscosity of an SAE 90 (ISO 220) once it has reached operating temperatures. It is intended for applications that require an SAE 75w90 or a single grade SAE 90 but could benefit from improved cold weather start up performance. It is not intended to be substituted where OEM recommendations call for single grade 75w, 80w or 90 weights.

Specifications Exceeded

US Steel • AG MA 9005 • E02 • Din 51517 part 2 David Brown
 • GM LS-2 • Most OEM specifications • CLP Din 151517 parts I, II, III • Ford WDS M2C200-C



A Product of SPX Technology™.

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

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
Timken, High speed lbs (Ford BJ1-5)	12.5
Four-Ball Wear Test (ASTM D4172)	
Avg Friction Coefficient	0.082
Avg Scar Diameter, mm	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
Gear Test (ASTM STP 512) .. No rippling, ridging or pitting	
Thermal Durability@ 325°F. (Stressed ASTM L-37)	
Ridging, Spalling, Varnish	None
Chemical Corrosion, Axle/Trans (BT-10) Wgt Loss, mg.	
Steel/Aluminum/Brass	0.2/0.9/0.9
Thermal Oxidation Stability Test	
Pentane Insoluble, % Wgt (FTM 2504)	0.08
Benzene Insoluble, % Wgt (FTM 2504)	0.05
Seal Compatibility - Volume % Change	
Nitrile @ 257°F., 168 Hours	2
Polyacrylate @ 257°F., 168 Hours	2.1
Fluroelastomer @ 320°F., 168 Hours	0
Foam Test (ASTM D892), Sequence I, II, III	0/0/0
Rust-Preventative Test (ASTM D665)	
Method A & B	Clean
Seven Days Moisture Corrosion (CRC L-33)	Pass
Demulsification, 5 min. (ASTM D1401)	40/40/0
Shear Stability (DIN 51382), % viscosity loss	
30 passes	0
250 passes	3
Sonic Shear (ASTM D5621), % viscosity loss	16
Four-Ball EP kg	400



Member



Member



Member



Service & Product Provider



Member



Member

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.