ADVANCED TECHNOLOGY IN LUBRICATION SINCE 1933

SWEPCO 204

PERFORMANCE

All Temperature Synthetic Gearbox Lube

SWEPCO 204 All Temperature Synthetic Gearbox Lube is a fully synthetic industrial gearbox lubricant designed to withstand extremes in both high and low operating temperatures. SWEPCO 204 is designed to deliver superior performance in industrial gearboxes and frac pumps with state-of-the-art advanced performance package in SWEPCO'S *Syntheon*™ base stock.

- Optimum oxidation stability, corrosion protection, and water-resistant properties
- Extends oil life as much as two to three times or more than conventional oils
- Controls foaming; lowers operating temperatures
- Superior control of deposits, varnish, corrosion, sludge, and rust
- Exceeds performance requirements of all major gearbox specifications
- Cost Effective, long drain intervals for Industrial gearboxes!

KEY BENEFITS

- Maximum protection and performance in extreme service (non-automotive) applications
- Meets AGMA 252.04, CLP DIN 151517 (Parts I, II, III), US Steel 224, ISO 12925-1 CKC, ISO 6743-6CKC, and NSF H2 for enclosed gearboxes where contact with food is not possible
- Excellent sheer strength, outstanding extreme pressure and anti-wear capabilities

APPLICATIONS

- Formulated for both extreme low temperatures as well as high temperature applications. Contains *Lubium II*® antioxidant/anticorrosion package along with other advanced additive chemistry to provide cost efficient extended drain protection from wear, foaming, over-heating, deposits, rust and water contamination.
- For use in enclosed gearboxes found in steel mills, kilns, ovens, pellet mills, homogenizers, glass, brick and asphalt manufacturing.
- High speed and general manufacturing, mining, gravel pits, conveyors, cranes, rail car positioning systems, and servos.
- Gearboxes for fans, electric motors, pumps, grinders, chippers, and other stationary equipment.
- Ideal for use in frac pumps, valves, and drilling opera-tions.

Feature	Benefit
Syntheon™ Base Stock Blends	• 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®	• Dramatically enhances oxidation and corrosion resistance
Oxidation Inhibitor	• Reduces oil thickening • Helps prevent sludge, varnish and carbon deposits that result from oxidation
Rust & Corrosion Inhibitor	• Builds a chemical bond with the surface to keep moisture and acids from penetrating and attacking surfaces
Anti-Foam Additive	• Can lower oil temperatures by 25 - 50°F by dispersing foam, releasing trapped heat
Oiliness Additive	• Enables the oil to penetrate the surface for better lubrication
Anti-Wear Additive	• Helps prevent metal to metal contact, friction and wear
Demulsifier Additive	• Promotes rapid water separation and easy water drain off after shut down
Pour Point Depressant Additive	• Gives the oil better low temperature flow characteristics • Helps to reduce low temperature start-up wear
Viscosity Index Improver Additive	• Less high temperature thinning and low temperature thickening
Saves Energy	• Increased "oiliness" provides friction reducing film on vital metal parts to reduce power usage by as much as 30%
Long Life	• Drain cycles 2-3 times longer than conventional oils reduce waste oil disposal
Lab *Tec*℠ Fluid Analysis Program	• Maximizes equipment and lubricant life and pinpoints impending problems • Reduces waste

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

ISO Viscosity Grade	150	220	320
Viscosity, 40°C, cSt	154.76	207.85	313.49
Viscosity, 100°C, cSt	23.98	29.72	41.82
Index	187	184	189
lbs/gal	7.07	7.09	7.11
SG	0.8477	0.8501	0.8525
Pour Point, °F (°C)	-55 (-48)	-50 (-46)	-44 (-42)
Flash Point COC, °F (°C)	536 (280)	536 (280)	536 (280)
Copper	1a	1a	1a
Rust	pass	pass	pass
Antifoam	pass	pass	pass

Specifications Exceeded

• All AGMA Specifications • USS 224 • NSF & Health Canada requrements for use in closed systems in federally inspected food and beverage plants • CLP Din 151517 parts I, II, III

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
Fluroelastomer @ 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
Emulsion, ML	0
Demulsification (ASTM D1401)	40/40/0

Caution: Do not use in automotive or mobile tranmissions or differentials.

***A Product of SPX Technology*™.**

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

ilma Member · NGI Member · STLE Member · ISO 9001 BUREAU VERITAS Certification · ENERGY STAR PARTNER Service & Product Provider · UEIL Member · Member

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