



# All Temperature Synthetic Gearbox Lube

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

## 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 shear strength, outstanding extreme pressure and anti-wear capabilities



- 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!

## APPLICATIONS

- Formulated for both extreme low temperatures as well as high temperature applications. Contains *Lubium II*<sup>®</sup> antioxidant/anticorrosion package along with other advanced additive chemistry to provide cost efficient extended drain protection from wear, foaming, overheating, 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.
- Caution: Do not use in automotive or mobile transmissions or differentials.

PERFORMANCE

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

### 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 requirements 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
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
Emulsion, ML.....	0
Demulsification (ASTM D1401).....	40/40/0



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