

## Moly Multi-Grade Gear Lube

*A premium quality, all-  
climate, energy efficient gear oil  
with the extra protection of moly.*

SWEPCO 212 Moly Multi-Grade Gear Lube is a premium quality true all-climate 80W-140 (ISO 150-460) EP gear oil formulated for superior protection and energy efficient operation of heavily-loaded or shock-loaded gearboxes operating in wide ambient temperature ranges. It is ideal for trucking and other applications exposed to both cold and hot weather, such as open pit mines, quarries, oil field service, sand and gravel operations and other demanding applications.

SWEPCO 212 provides unexcelled protection and reliability for both stationary gearboxes and heavy-duty mobile manual transmissions, final drives and transfer cases.

Safe, long term protection from wear, friction, oxidation, sludge, varnish and corrosion are the result of a uniquely effective blend of the very finest base oil stocks and the latest lubrication additive chemistry, including



**SWEPCO 212 provides unexcelled lubricity, wear control and energy savings in a wide range of applications exposed to varying seasonal temperatures ... stationary or mobile, over the road or short haul, high shock or heavy load.**

SWEPCO's special extreme pressure/anti-oxidant LUBIUM® and the extra anti-friction/anti-wear protection of technically fine molybdenum disulfide.

■ Energy Savings In Stationary Applications. SWEPCO 212 has shown as much as a 22.5% reduction in electrical loads and corresponding savings.

■ Fuel Savings In Mobile Applications. More than two million miles of over-the-road field testing have proven SWEPCO 212 can result in fuel savings



Short haul, heavy load



Stationary applications



Extreme pressure



Over-the-road

of 1.2% to 3.6% when compared to 80W-90 and 85W-140 rear axle lubricants and as much as 5% when compared to straight 90 weight lubricants.

■ **Long Drain Service.** High quality base stocks and advanced additive chemistry provide SWEPCO 212 with superior thermal stability, shear strength and resistance to oxidation. With SWEPCO's Lab Tec<sup>SM</sup> Fluid Analysis Program, SWEPCO 212 can safely provide 200,000-mile or more drain service in over-the-road trucking and 2,000 to 3,000 hours or more for stationary gearboxes, depending on the application.

■ **The Extra Protection of Moly.** The addition of technical fine molybdenum disulfide enhances protection from friction and wear in boundary lubrication situations. Even if the lubricant should get squeezed from between metal surfaces from extreme pressure or high shock loads, metal parts plated with molybdenum disulfide remain protected from friction, wear and seizing.

■ **A Single Versatile All-Climate Gear Oil.** As a true high performance 80W-140 (ISO 150-460), SWEPCO 212 provides low temperature fluidity superior to an 80W-90 (ISO 150). Critical bearings and gear sets are lubricated more quickly. And cold weather shifting in heavy-duty transmissions is improved. The result is less wear and better cold weather performance from gearboxes, transmissions and final drives. It also provides high temperature protection exceeding that of a straight 140 (ISO 460). SWEPCO 212 makes seasonal oil changes unnecessary.

■ **Meets Toughest Industry Standards.** SWEPCO 212 exceeds most manufacturers requirements and the industry's most severe service specifications, including US

Steel Specification 224 for enclosed gears, AGMA Specification 9005, Mack GO-J Wear Test for final drive units and the Rockwell Standard Specification 0-76B. It is an API-MT-1 lubricant that exceeds the requirements of MIL-PRF-2105E, API GL-5 and AGMA 4 through 7EP.


■ **Reduces Consumption.** For those users who maximize its life through an effective oil analysis program, SWEPCO 212 can significantly reduce gear oil consumption. Annual gear oil requirements can be reduced by as much as 50 to 75% with corresponding reductions in routine maintenance labor and downtime.

■ **Other Performance Features.** Safe for all types of gearing ... steel, copper and alloys. Excellent rust, corrosion and foam protection and separates from water quickly.

■ **Ideal For Outdoor Equipment.** SWEPCO 212's all-climate performance makes it especially well suited for long drain service for all types of outdoor applications, such as pump jack gear boxes, crushers, overhead cranes, trunnions, conveyor systems and many others.

### Typical Physical Characteristics

API Gravity, 60°F .....	28
Flash point, COC, °F .....	400
Viscosity, 210°F, SUS .....	130
Viscosity 100°C, cSt .....	25.98
Viscosity 100°F, SUS .....	1285
Viscosity, 40°C, cSt .....	175.7
Pour Point, °C Max .....	-48
Viscosity Index .....	183
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 D2783)	
Avg Friction Coefficient .....	0.082
Avg Scar Diameter, mm .....	0.28
Four Square Gear (FZG) Test (DIN51354)	
A/8.3/90°C, min, stage passed .....	12+
Copper Strip Corrosion @ 212°F, 3 hrs .....	1
Seven Days Moisture Corrosion (CRC L-33) .....	Pass
Thermal Oxidation Stability Test	
Pentane Insoluble, % Wt (FTM 2504) .....	0.08
Benzene Insoluble, % Wt (FTM 2504) .....	0.05
Foam Test (ASTM D892), Sequence I, II, III .....	0
Gear Test (ASTM STP 512) .. No rippling, ridging or pitting	



**A Product of SPX Technology™.**

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



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