Daryl Zebrasky

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AMSOIL Regulatory Compliance

DATA SHEET

SEVERE GEAR® EP Synthetic Racing Gear Lubricant

Engineered to Protect Hard-Driven Racing Differentials



Racers, rockcrawlers and other off-road enthusiasts invest thousands of dollars and countless hours in their rigs. Professional competition and weekend off-roading, however, take a toll on differentials. Intense pressure can break the lubricant film and lead to gear and bearing wear. In racing applications, increased G-forces can sling the lubricant off gears, leaving them exposed to wear, while gear lubes that don't cling well to parts can fail to protect ring and pinion gears when the vehicle is run at steep angles, such as during rockcrawling. For maximum differential performance and life, enthusiasts need a gear lube that combines excellent wear protection, the ability to cling to parts during severe operation and good fluidity. AMSOIL SEVERE GEAR EP Synthetic Racing Gear Lubricant delivers peace of mind that expensive, high-performance racing and competition differentials are well protected in the toughest conditions.

- **Resists** sling-off from G-forces and high speeds
- **Clings** to gears – high-pinion style and at steep angles
- **Promotes** cooler operating temperatures
- **Helps extend** gear and bearing life

Protects Against Wear

SEVERE GEAR is formulated with an extra-heavy treatment of additives and shear-stable, heavy synthetic base oils for high film strength. It cushions metal surfaces and absorbs the impact of moving parts, protecting gears against wear in extreme conditions. Its proprietary extreme-pressure additives form an iron-sulfide barrier on gear surfaces for the ultimate line of defense against wear, pitting and scoring.

Provides Fast Protection

SEVERE GEAR doesn't contain the irregularly sized and shaped molecules inherent to conventional oils. As a result, it provides excellent fluidity despite its high viscosity to quickly reach gears and bearings at startup. Its superior fluidity also reduces drag and energy loss, helping drivers put maximum power to the ground.

Clings Tenaciously to Parts

SEVERE GEAR is specifically engineered for high-horsepower, high-torque conditions where centrifugal gear lube sling-off is encountered. Its tenacious formulation clings to gears and bearings for maximum protection during shock loading, high G-forces and where pinion gears are installed at steep angles. SEVERE GEAR provides excellent reliability and helps extend gear life.

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TYPICAL TECHNICAL PROPERTIES

AMSOIL SEVERE GEAR® EP Synthetic Racing Gear Lubricant (SRT)

	SAE 250
Kinematic Viscosity @ 100°C, cSt (ASTM D445)	46.6
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	474.8
Viscosity Index (ASTM D2270)	154
Flash Point °C (°F) (ASTM D92)	234 (453)
Pour Point °C (°F) (ASTM D97)	-25 (-13)
Copper Corrosion (ASTM D130)	1B
Falex Procedure B (ASTM D3233) (failure load, lbf.)	3250
Four-Ball Wear Test (ASTM D4172 @40 kg, 75°C, 1200 rpm, 1 hr), Scar, mm	0.40

SERVICE LIFE

AMSOIL SEVERE GEAR Synthetic Racing Gear Lube is intended for severe racing and other applications where extended drain intervals are not beneficial. Change it as conditions dictate. Extend drain intervals only as recommended by oil analysis.

COMPATIBILITY

SEVERE GEAR Synthetic Racing Gear Lube is compatible with synthetic and conventional automotive gear oils. Mixing AMSOIL gear oil with other oils, however, will shorten the oil life expectancy and reduce its performance benefits.

Aftermarket oil additives, other than those specified by AMSOIL, are **not recommended** for use with AMSOIL gear oil.

APPLICATIONS

Use in hypoid gear differentials and other applications that require a high-viscosity API GL-5 gear lube, including off-road trucks, rock racers, rockcrawlers, pulling tractors, funny cars, dragsters, heavy-duty trucks and equipment where increased lubricant film is necessary. Where limited-slip performance is required, use AMSOIL Slip Lock® limited-slip additive.

AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit AMSOIL.com/warranty.aspx.

HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available via the Internet at AMSOIL.com or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Recycle used oil and bottle.

AMSOIL The First in Synthetics®

AMSOIL products and Dealership information are available from your local full-service AMSOIL Dealer.

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