



The First in Synthetics®

Severe Gear® Synthetic Off-Road and Drag Racing Gear Lubricants

SAE 190 (SRN) & SAE 250 (SRT)

Formulated for severe racing conditions and other applications subject to extreme shock loading and pressures.



PRODUCT DESCRIPTION

AMSOIL Severe Gear Synthetic SAE 190 and SAE 250 Gear Lubricants are premium grade, extreme pressure gear lubes engineered specifically for the demands of severe racing conditions. They are formulated with shear stable, heavy synthetic base oils for “high film strength” and extra heavy treatments of additives. Their synthetic formulations provide improved flow over conventional oils, reducing viscous drag and power loss. Severe Gear SAE 190 and SAE 250 Gear Lubes provide a barrier cushion between metal surfaces that absorbs impact. AMSOIL proprietary extreme pressure additives form an iron-sulfide barrier coating on gear surfaces for the ultimate line of defense against wear, pitting and scoring.

Performance

AMSOIL Severe Gear Synthetic SAE 190 and SAE 250 Gear Lubricants are specifically engineered for high horsepower, high torque conditions where centrifugal gear lube sling-off is encountered. These tenacious formulations cling to gears and bearings for the best possible protection during shock loading, high G-forces and where pinion gears are installed at steep

angles. Custom Severe Gear Synthetic Gear Lubricants provide exceptional reliability and extended gear life.

- **Protects gears from shock loading and tire shake**
- **Resists sling-off from G-forces and high speeds**
- **Clings to gears - high pinion style and at steep angles**
- **Promotes cooler operating temperatures**
- **Protects against rust and corrosion**
- **Extends gear and bearing life**

Applications

AMSOIL Severe Gear Synthetic SAE 190 and SAE 250 Gear Lubricants are excellent for severe differential applications, including off-road truck racing, rock racing, rock crawling, tractor pulling, funny car racing and dragster racing. Other severe duty applications include heavy duty trucks and equipment where increased lubricant film is necessary. These oils are recommended for use in hypoid gear differentials and other applications requiring a high viscosity, **API GL-5** gear lube. Where limited slip performance is required, use AMSOIL Slip-Lock® limited slip additive.

Photo Courtesy of JnL Photography



TYPICAL TECHNICAL PROPERTIES

AMSOIL Severe Gear Synthetic Off-Road and Drag Racing Gear Lubricants SAE 190 & SAE 250

	SAE 190 (SRN)	SAE 250 (SRT)
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	37.6	47.4
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	375.7	502.7
Viscosity Index	147	151
Flash Point °C (°F) (ASTM D-92) 150°C Min.	218 (424)	222 (432)
Pour Point °C (°F) (ASTM D-97)	-30 (-22)	-26 (-15)
Copper Corrosion (ASTM D-130) 2a Max. @ 121°C (250°F)/3hr.	1b	1b
Falex Procedure B (ASTM D-3233) (failure load, lbf.)	2500	2500
Four-Ball Wear Test (ASTM D4172B @40 kgf, 75°C, 1200rpm, 1hr), Scar, mm	0.41	0.41

Service Life

AMSOIL Severe Gear synthetic SAE 190 and SAE 250 gear lubricants are intended for severe racing and other applications where extended drain intervals are not beneficial. AMSOIL recommends changing the lubricant as conditions dictate. Where extended drain intervals are desired, AMSOIL recommends monitoring by oil analysis.

Mixing AMSOIL

AMSOIL Severe Gear Synthetic SAE 190 and SAE 250 Gear Lubricants are compatible with conventional and synthetic automotive gear oils. Mixing AMSOIL gear oils with other oils, however, will shorten the oil life expectancy and reduce the performance benefits. Aftermarket oil additives, other than those specified by AMSOIL, are not recommended for use with AMSOIL gear oils.

Health & Safety

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Material Safety Data Sheet (MSDS). An MSDS is available upon request at 715-392-7101 or via the internet at www.AMSOIL.com. Keep out of reach of children. Don't pollute. Return used oil to collection centers.

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

