

# Mobil 1 Synthetic Gear Lubricant 75W-90

Supreme Performance Synthetic Multi-Purpose Automotive Gear Lubricant

## Product Description

Mobil 1 Synthetic Gear Lubricant is a supreme performance, synthetic, multi-purpose, SAE 75W-90 automotive gear lubricant designed to meet the highest level performance requirements of modern passenger vehicles in all types of operating conditions, as well as, deliver outstanding power transfer performance. Compared to conventional hypoid gear lubricants, Mobil 1 Synthetic Gear Lubricant 75W-90 performs exceptionally over a wide range of temperatures. Mobil 1 Synthetic Gear Lubricant 75W-90 achieves this through a proprietary formulation, that delivers optimized viscosity-temperature properties together with a high level of inherent formulation stability and protects against thermal and oxidative degradation, wear and corrosion, viscosity loss associated with premature shearing. It also can be used in extended service and for aiding in fuel economy performance.

Mobil 1 Synthetic Gear Lubricant 75W-90 meets the most severe API Service MT-1 and GL-5 EP gear oil service classification.

## Features & Expected Benefits

Mobil 1 Synthetic Gear Lubricant 75W-90 combines wax-free synthesized hydrocarbon base oils and a specially designed extreme-pressure, limited-slip, sulphur-phosphorous additive system to provide a significantly higher level of performance in rear axles and differentials versus conventional fluids. Greater film strength at higher operating temperatures, reduced fluid friction and low-temperature application down to -50°C provides significant advantages versus conventional mineral oil formulations. It reduces wear and spalling under the high speed, high torque and high horsepower conditions in competitive racing and high performance automobiles. This high technology final drive gear lubricant has demonstrated outstanding performance including; fuel economy, extended drain, long-term friction retention, low-temperature capability and improved differential/axle durability and cleanliness. Key features and expected benefits include:

Due to continual product research and development, the information contained herein is subject to changes without notification. Additional important health and safety information on this product can be found in the Material Safety Data Sheet, which is available online at [www.imperialoil.ca/mobil](http://www.imperialoil.ca/mobil) or by contacting Lubricants and Petroleum Specialties, Technical Services, Technical Help Desk: 1-800-268-3183

© 2001 Imperial Oil  
© The Mobil logotype and the Pegasus design are registered trademarks of Exxon Mobil Corporation.  
™ Trademark of Exxon Mobil Corporation, Imperial Oil, Licensee.



Features	Expected Advantages and Benefits
Exceptional thermal stability and resistance to high temperature oxidation	Excellent gear and bearing life due to deposit control Longer seal life Potential extended oil drain/service intervals
Outstanding protection against low speed/high torque wear and against high speed scoring	Capability to handle the severest driving conditions while delivering smooth efficient and reliable performance
Exceptional shear stability	Retains viscosity and film strength under severe operating conditions to prevent wear
Excellent rust, staining and corrosion protection of copper and its alloys	Reduced wear Longer component life
Optimized frictional properties	Excellent fuel economy and reduced operating costs
Outstanding low temperature fluidity versus mineral oils	Reduced wear at start up and ease of start up even in arctic conditions
Good resistance to foaming	Maintains film strength for reliable lubrication
Compatible with typical automotive seals and gaskets	Controls leakage and reduces contamination
Excellent limited-slip performance	Reduced chatter and improved traction

## Applications

- Mobil 1 Synthetic Gear Lubricant 75W-90 is recommended for use in modern high performance automobiles like SUV's, Vans and Light duty trucks requiring API GL-5 & MT-1 level performance.
- Mobil 1 Synthetic gear Lubricant 75W-90 is intended for initial fill, topping-off or refilling differentials, final drives, transfer cases and other gear applications where lubricants meeting, API Service GL-5 and multi-purpose or mild EP gear lubricants are recommended.
- Mobil 1 Synthetic Gear Lubricant 75W-90 can also be used in rear axles where API Service GL-4 lubricant is recommended.
- Not recommended for automatic, manual or semiautomatic transmissions for which engine oil or automatic transmission fluids are recommended.
- Where extended service intervals and warranties are required.

## Specifications & Approvals

Mobil 1 Synthetic Gear Lubricant meets or exceeds the following industry specifications:	75W-90
API GI-5/MT-1	X

Due to continual product research and development, the information contained herein is subject to changes without notification. Additional important health and safety information on this product can be found in the Material Safety Data Sheet, which is available online at [www.imperialoil.ca/mobil](http://www.imperialoil.ca/mobil) or by contacting Lubricants and Petroleum Specialties, Technical Services, Technical Help Desk: 1-800-268-3183



## Typical Properties

<b>Mobil 1 Synthetic Gear Lubricant</b>	
SAE Grade	75W-90
Viscosity, ASTM D445	
cSt @ 40°C	106
cSt @ 100°C	15.2
Viscosity Index, ASTM D2270	150
Pour Point, °C, ASTM D 97	-46
Flash Point, °C, ASTM D92	175
Density @ 15°C kg/l, ASTM D 4052	0.859

## Precautions

MOBIL 1 SYNTHETIC GEAR LUBRICANT 75W-90 is manufactured from high quality synthetic base oil, carefully blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact to skin, splashing into the eyes, ingestion or vapour inhalation. Special care is also recommended in handling used motor oils. A Service Data Sheet entitled "Safe Handling of Used Motor Oils" is available on request from you Imperial Oil Representative. Please refer to our Imperial Oil Material Safety Data Sheet for further information.

**Note:** This product is not controlled under Canadian WHMIS legislation.

The Mobil logotype, the Pegasus design, Mobil 1 Gear Lubricant are trademarks of Exxon Mobil Corporation, or one of its subsidiaries.

05-2009

Due to continual product research and development, the information contained herein is subject to changes without notification. Additional important health and safety information on this product can be found in the Material Safety Data Sheet, which is available online at [www.imperialoil.ca/mobil](http://www.imperialoil.ca/mobil) or by contacting Lubricants and Petroleum Specialties, Technical Services, Technical Help Desk: 1-800-268-3183

© 2001 Imperial Oil  
® The Mobil logotype and the Pegasus design are registered trademarks of Exxon Mobil Corporation.  
™ Trademark of Exxon Mobil Corporation, Imperial Oil, Licensee.

