

# Mobil 1® Synthetic Grease

## Grease

### Product Description

Mobil 1 Synthetic Grease is an NLGI No. 2 supreme performance grease that combines a polyalphaolefin (PAO) synthetic base fluid with a lithium complex soap thickener. The wax-free nature of the synthetic base fluid, together with its low coefficient of traction compared with mineral oils, provide excellent low temperature pumpability, very low starting and running torque, and can reduce operating temperatures in the load zone of rolling element bearings. Because of its low traction properties, the PAO base also offers the potential for energy savings through improved efficiency. The thickener system provides a high dropping point, while additives impart optimum extreme-pressure properties and excellent resistance to water wash, and outstanding protection against rust and corrosion. Mobil 1 Synthetic Grease has excellent structural stability and low-temperature pumpability, making it an outstanding automotive grease.

Based on its outstanding performance capabilities, Mobil 1 Synthetic Grease is recommended for a wide range of automotive applications, but especially where any of the following operational conditions occur: high loads, moisture or condensation, high temperature exposure and low temperature start-up.

Mobil 1 Synthetic Grease is the natural choice for vehicles using Mobil 1® engine oil, providing the same outstanding performance and reliability for which its fluid synthetic counterpart has long been recognized. This leading grease product is based on the synthesized PAO base stocks that were pioneered by ExxonMobil.

### Features & Benefits

Lubricants bearing the Mobil 1 brand are recognized around the world for innovation and outstanding performance. These PAO-based synthetic products, pioneered by ExxonMobil, symbolize our continuing commitment to using advanced technology to provide outstanding lubricant products. Close contacts between our ExxonMobil scientists and application specialists and OEMs ensure that our products are designed to meet the needs of continually evolving automotive equipment designs.

To combat degradation caused by high thermal stress of the grease our product formulation scientists chose synthetic base oils with exceptional thermal/oxidative resistance. Our formulators also chose specific thickener and additive technology which would maximize the benefits of the synthetic base oils to provide exceptional grease life and resistance to thermal/oxidative and chemical degradation, as well as the balance of the performance features. The wax-free nature of the synthetic base oil also provides outstanding low temperature fluidity characteristics that are a key benefit for low ambient temperature applications.

Mobil 1 Synthetic Grease provides the following advantages and benefits:



Features	Advantages and Potential Benefits
All-round excellent performance features (detailed below)	Multi-purpose automotive service for reduced inventory requirements
Operating range of -40°C to +180°C	Excellent low temperature start-up Outstanding service life even under the most arduous conditions
Excellent resistance to rust and corrosion	Excellent all-weather bearing protection
Outstanding structural stability	Outstanding grease life, even in high shear environments
Excellent wear protection under heavy loads and good shock loading protection	Superb protection of greased engine parts providing long life and avoiding unexpected malfunction or breakage
Excellent resistance to water wash	Maintains excellent performance and protection even in the wettest conditions

## Applications

Mobil 1 Synthetic Grease meets the requirements of the National Lubricating Grease institute (NLGI) performance classification GC-LB. It is recommended for automotive grease applications at both high and low temperatures and will provide outstanding bearing protection under heavy loads at any highway speed, and where moisture or condensation is a factor. It is particularly suited for applications such as:

- Disc brake wheel bearings
- Ball and steering joints
- Universal joints

## Typical Properties

	Mobil 1 Synthetic Grease
NLGI Grade	2
Thickener Type	Lithium Complex
Color, Visual	Red
Penetration, Worked, 25 °C, ASTM D 217	280
Dropping Point, °C, ASTM D 2265	280
Viscosity of Oil, ASTM D 445	
cSt @ 40°C	220
Timken Test, ASTM D 2509	60
4 Ball Wear Test, ASTM D 2266, scar dia, mm	0.4
4 Ball EP Test, ASTM D 2596, Weld Load, Kg	315
Corrosion Protection, ASTM D 1743	Pass
Water Washout, ASTM D 1264, % @ 79°C	4



## Precautions

MOBIL 1 SYNTHETIC GREASE is manufactured from high quality synthetic base stocks , carefully blended with selected soaps and 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. High-pressure injection of any grease under the skin can cause serious delayed soft tissue damage and should be treated immediately by a physician. To avoid injection injuries, inspect greasing equipment regularly for worn hoses and fittings. Keep fingers away from the nozzle and ensure the nozzle is firmly in place before discharging the grease. 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 and Delvac are trademarks of ExxonMobil Corporation, or one of its subsidiaries.

