



## Mobil 1™ 5W-50

### Advanced Full Synthetic Motor Oil

#### Product Description

Mobil 1™ is the world's leading synthetic motor oil brand delivering our ultimate performance and protection.

Mobil 1 5W-50 Advanced Full Synthetic Motor Oil is our tried and trusted formulation delivering great all-round performance. Mobil 1 5W-50 keeps your engine performing like new. This race-proven technology is suited for extreme driving conditions and motorsport applications.

Racing or normal driving, Mobil 1 5W-50 (Rally Formula) helps to provide heavy-duty engine performance and protection for an outstanding driving experience.

#### Features and Potential Benefits

Mobil 1 5W-50 is made with a proprietary blend of ultra high performance synthetic basestocks fortified with a precisely balanced component system. Mobil 1 5W-50's wide viscosity grade helps to provide a flexible combination of powerful protection agents that provide outstanding performance in many driving situations.

- Prevents deposits and sludge build-up to enable long and clean engine life
- Anti-oxidants to help improve oil life
- High performance basestocks combined with a precisely balanced component system for excellent all-round wear protection
- Wide viscosity grade to help provide a flexible combination of high and low temperature protection
- Performs and protects at low temperatures

#### Applications

The balanced technology of Mobil 1 5W-50 helps to make it suitable for many types of vehicles and operating conditions, from mild to severe.

- Many gasoline and diesel (without Diesel Particulate Filter) engine technologies
- High performance engines
- Most operating conditions, from mild to extreme

Always consult your owner's manual to check recommended viscosity grade and specifications for your particular vehicle.

#### Specifications and Approvals

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**Mobil 1 5W-50 meets or exceeds the requirements of:**

API SN, SM, SL, SJ	X
ACEA A3/B3, A3/B4	X

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**According to ExxonMobil, Mobil 1 5W-50 is of the following quality level:**

API CF	X
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**Mobil 1 5W-50 has the following builder approvals:**

VW 501 01 / 505 00	X
PORSCHE A40	X
MB-Approval 229.3	X
MB-Approval 229.1	X
BMW High Performance Diesel Oil	X
Lexus LFA Service Fill	X

## Typical Properties

<b>Mobil 1 5W-50</b>	<b>Value</b>
Viscosity, cSt ASTM D445	
@ 40°C	108
@ 100°C	17.5
Viscosity Index	180
Sulfated Ash, wt% (ASTM D874)	1.3
Phosphorous, wt% (ASTM D4951)	0.1
Flash Point, °C (ASTM D92)	231
Density @15.6°C g/ml, (ASTM D4052)	0.85
Total Base Number (ASTM D2896)	11.8
MRV at -35°C, cP (ASTM D4684)	29,244
HTHS Viscosity, mPa•s @ 150 °C (ASTM D4683)	4.4

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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1-2016

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification.

Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit [www.exxonmobil.com](http://www.exxonmobil.com). ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

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