



## Mobil 1™ ESP Formula 0W-40

Mobil Passenger Vehicle Lube , Mexico

Fully Synthetic Engine Oil

### Product Description

Mobil 1™ ESP Formula 0W-40 is a fully synthetic engine oil designed to help provide exceptional cleaning power, wear protection and overall performance. Mobil 1 ESP Formula 0W-40 has been expertly engineered to help prolong the life and maintain the efficiency of emission systems in both diesel and gasoline powered automobiles.

### Features and Benefits

Mobil 1 ESP Formula 0W-40 is made with a proprietary blend of leading edge components formulated to be fully compatible with the latest Diesel Particulate Filters (DPF's) and Gasoline Catalytic Converters (CAT's). Mobil 1 ESP Formula 0W-40 has been designed to help deliver outstanding performance and protection in conjunction with potential fuel economy benefits. Key features and potential benefits include:

| Features                                    | Advantages and Potential Benefits  |
|---|--|
| Low Ash Content                             | Helps to reduce particulate build up in Diesel Particulate Filters                   |
| Low Sulphur and Phosphorous content         | Helps to reduce poisoning of Gasoline Catalytic Converters                           |
| Active cleaning agents                      | Helps to reduce deposits and sludge build-up to enable long and clean engine life    |
| Outstanding thermal and oxidation stability | Helps to reduce oil aging allowing extended drain interval protection                |
| Low oil consumption                         | Less hydrocarbon pollution   |
| Enhanced frictional properties              | Potentially aids fuel economy  |
| Excellent low temperature capabilities      | Quick cold weather starting and ultra fast protection<br>Helps to extend engine life |

### Applications

Mobil 1 ESP Formula 0W-40 has the General Motors Service Fill dexos2™ approval, which is required for all 2010 and onward new GM/Opel/Vauxhall /Chevrolet Diesel and Gasoline models. GM/Opel have advised that dexos2™ specification is backward compatible to older GM/Opel specifications (GM-LL-A-025 and GM-LL-B-025). The majority of GM/Opel/Vauxhall/Chevrolet Diesel and Gasoline vehicles can use dexos2™ lubricants.

Mobil 1 ESP Formula 0W-40 is especially suitable for extreme conditions, where conventional oil often may not perform.

It is not recommended for 2-Cycle or aviation engines, unless specifically approved by the manufacturer.

### Specifications and Approvals

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| <b>This product has the following builder approvals:</b> |
| GM dexos2 (license number D20679HJ015)                   |

**Properties and Specifications**

| Property  |           |
|---|-----------|
| Grade   | SAE 0W-40 |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445             | 69        |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445            | 12.9      |
| Ash, Sulfated, mass%, ASTM D874                                       | 0.8       |
| Phosphorus, mass%, ASTM D4951   | 0.09      |
| Flash Point, Cleveland Open Cup, °C, ASTM D92                         | 232       |
| Density @ 15 C, g/ml, ASTM D4052                                      | 0.8408    |
| Total Base Number, mgKOH/g, ASTM D2896                                | 8.5       |
| Mini-Rotary Viscometer, Yield Stress, -40 C, Pa, ASTM D4684           | 20100     |
| Viscosity Index, ASTM D2270   | 189       |
| Hi-Temp Hi-Shear Viscosity @ 150 C 1x10(6) sec(-1), mPa.s, ASTM D4683 | 3.53      |

**Health and safety**

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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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)

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