



## Mobil 1™ ESP Formula 5W-30

### Advanced Full Synthetic Engine Oil

#### Product Description

Mobil 1™ ESP Formula 5W-30 is an advanced performance synthetic engine oil designed to help provide exceptional cleaning power, wear protection and overall performance. Mobil 1 ESP Formula 5W-30 has been expertly engineered to help prolong the life and maintain the efficiency of emission systems in both diesel and gasoline powered automobiles. Mobil 1 ESP Formula 5W-30 meets or exceeds the requirements of many leading industry and car manufacturers' standards required for newer modern diesel and gasoline powered passenger car engines.

#### Features and Potential Benefits

Mobil 1 ESP Formula 5W-30 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 5W-30 has been designed to help deliver outstanding performance and protection in conjunction with 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              | 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 5W-30 is recommended for all types of modern automobile engines, especially the high-performance gasoline and diesel engines found in the latest passenger cars, SUVs and light vans.

- Mobil 1 ESP Formula 5W-30 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

**Mobil 1 ESP Formula 5W-30 has the following builder approvals:**

|                                |                 |
|--------------------------------|-----------------|
| BMW                            | Longlife 04     |
| MB-Approval                    | 229.31          |
| MB-Approval                    | 229.51          |
| Volkswagen (Gasoline / Diesel) | 504 00 / 507 00 |
| Porsche                        | C30             |
| Chrysler                       | MS-11106        |
| Peugeot/Citroën Automobiles    | B71 2290        |
|                                | B71 2297        |

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**Mobil 1 ESP Formula 5W-30 meets or exceeds the requirements of:**


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|                                      |         |
|--------------------------------------|---------|
| ACEA                                 | C2, C3  |
| API (Meets Engine Test Requirements) | SM / SN |
| JASO                                 | DL-1    |

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**According to ExxonMobil, Mobil 1 ESP Formula 5W-30 is of the following quality level:**


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|                       |                                   |
|-----------------------|-----------------------------------|
| API                   | CF                                |
| Volkswagen (Gasoline) | 502 00 / 503 00 / 503 01          |
| Volkswagen (Diesel)   | 505 00 / 505 01 / 506 00 / 506 01 |

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All VW engines with the exception of Unit-Injector / Pump-Duse TDI without LongLife Service and without DPF between 1999-2003 and R5/V10-TDi before model year 2006

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## Typical Properties

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**Mobil 1 ESP Formula 5W-30**


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|   |       |
|---|-------|
| SAE Grade                                   | 5W-30 |
| Viscosity, cSt (ASTM D445)                  |       |
| @ 40°C                                      | 72.8  |
| @ 100°C                                     | 12.1  |
| Viscosity Index                             | 164   |
| Sulphated Ash, wt% (ASTM D874)              | 0.6   |
| HTHS Viscosity, mPa•s @ 150 °C (ASTM D4683) | 3.58  |
| Pour Point, °C (ASTM D97)                   | -45   |
| Flash Point, °C (ASTM D92)                  | 254   |
| Density @ 15.6 °C, g/ml (ASTM D4052)        | 0.850 |

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## Health and Safety

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

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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

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