Mobil 1 ESP Formula 5W-30 - Emission System Protection

Advanced Performance Synthetic Engine Oil

Product Description

Mobil 1 ESP Formula 5W-30 is an advanced performance synthetic engine oil designed to 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 Car Emission Reduction Systems in both diesel and gasoline powered automobiles. Mobil 1 ESP Formula 5W-30 exceeds the requirements of many leading industry and car manufacturers' standards required for newer modern diesel and gasoline powered passenger car engines.

Features and 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 deliver outstanding performance and protection in conjunction with improved fuel economy. Key features and 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	Reduces deposits and sludge build-up to enable long and clean engine life
Outstanding thermal and oxidation stability	Reduces oil ageing allowing extended drain interval protection
Low oil consumption	Less hydrocarbon pollution
Enhanced frictional properties	Greater fuel economy
Excellent low temperature capabilities	Quick cold weather starting and ultra fast protection
	Extended engine and electrical system 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 cannot 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 meets or exceeds the following industry specifications:	
ACEA	C2/C3, A3/B3/B4
ACEA (Meets Engine Test Requirements)	A5/B5
API (Meets Engine Test Requirements)	SL / SM
API	CF

Mobil 1 ESP Formula 5W-30 has the following builder approvals:	
BMW	Longlife 04
Daimler Chrysler	229.31/229.51
Volkswagen (Gasoline / Diesel)	504.00 / 507.00

Also recommended for use in applications requiring	
BMW	Longlife 01 and 01 FE
Volkswagen (Gasoline)	502 00 / 503 00 / 503 01
Volkswagen (Diesel)	505 00 / 506 00
Volkswagen (Diesel "Unit-Injector/Pumpe-Düse" - exceptions pls see below)	505 01^ / 506 01^
^ except "Unit-Injector/Pumpe-Düse" R5/V10-TDi (VW 506 01) and 3/4-cylinder Diesel engines without Longlife-Service/without Diesel-Particulate-Filter (VW 505 01)	

Typical Properties

Mobil 1 ESP Formula 5W-30	
SAE Grade	5W-30
Viscosity, ASTM D 445	
cSt @ 40ºC	72.8
cSt @ 100ºC	12.1
Viscosity Index, ASTM D 2270	164
Sulphated Ash, wt%, ASTM D 874	0.6
HTHS Viscosity, mPa·s @ 150ºC, ASTM D4683	3.58
Pour Point, ºC, ASTM D 97	-45
Flash Point, ºC, ASTM D 92	254
Density @ 15ºC, kg/l, ASTM D 4052	0.850

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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