

Havoline[®] Fully Synthetic Hybrid

SAE 0W-20



Passenger Car Motor Oil

Product description

Havoline Fully Synthetic Hybrid is specifically formulated for Hybrid car engine applications to give hybrid vehicles the extra care they require. It is a resource conserving, multigrade gasoline engine oil formulated with synthetic base oils and advanced additive technologies.

It is designed for hybrid electric vehicles (HEV) and plugin hybrid electric Vehicles (PHEV) fitted with internal combustion engines, turbocharged or naturally aspirated, direct or indirect injection, requiring low viscosity ILSAC GF-6A or API SP performance lubricants where multiple stops and starts of the gasoline engine occur during the different operating phases of the hybrid vehicle.

Customer benefits and product features

Customer benefits

- **Excellent Hybrid Engine Protection**
Exceptional corrosion resistance and good anti-rust ability to protect engine under extreme conditions of water contamination. The low viscosity, multigrade, formulation provides additional protection by reducing internal engine friction, and by ensuring smooth oil flow during frequent start/stop for maximum efficiency and engine protection.
- **Maintains Optimal Hybrid Power and Performance with Smoother Oil Flow**
Strong emulsion-forming technology enables smooth oil flow even in the presence of fuel and water contamination. It works immediately upon contact with an engine's moving parts to create a protective coating that shields the engine against the deposits which lead to loss of performance.
- **Specifically-Formulated for Hybrids**
Excellent control of sludge formation to keep engine clean under low operating temperature conditions for short-running engine in hybrids. High thermal stability and excellent oxidation resistance provides outstanding protection against in-service oil degradation that contributes to filter blocking and sludge formation in the oil galleries, crankcase and valve train.
- **Reduces fuel consumption**
Improved viscometric properties and effective friction modifiers minimizing internal engine friction losses.
- **Extended drain intervals**
High thermal stability and excellent oxidation resistance prevent oil degradation and extend intervals between oil changes.
- **Low oil consumption**
Low volatility, synthetic base oil minimizes oil loss through evaporation.

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Applications

Havoline Fully Synthetic Hybrid SAE 0W-20 is suitable for use in hybrid and gasoline vehicles where an API SP or ILSAC GF-6A SAE 0W-20 lubricant is recommended.

Product approvals, performance and recommendations

Performance

- API SP/Resource Conserving
- ILSAC GF-6A

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Typical test data

HAVOLINE® FULLY SYNTHETIC HYBRID SAE 0W-20	TEST METHOD	RESULTS
SAE Grade		0W-20
Product Code		500166
Density at 15°C, kg/l	ASTM D4052	0.8472
Kinematic viscosity, mm ² /s @ 40°C mm ² /s @ 100°C	ASTM D445 ASTM D445	43.5 8.4
Viscosity Index	ASTM D2270	172
Pour Point, °C	ASTM D5950	-45
Flash Point °C	ASTM D92	242
Phosphorus mass %	ASTM D4951	0.066
Ash, sulphated mass %	ASTM D874	0.77
Zinc, mass %	ASTM D4951	0.076

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ENVIRONMENT, HEALTH and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the [Product Information Center](#).

This Product Data Sheet (PDS) was produced for the Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center

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