



## AMSOIL 100% Synthetic Hybrid Motor Oil

### Advanced Protection for Hybrid Vehicles

The internal combustion engine (ICE) in a hybrid vehicle endures a unique set of challenges. Infrequent engine usage and increased stop/start activity place demands on lubricants not common in traditional ICE vehicles. AMSOIL 100% Synthetic Hybrid Motor Oil is a premium upgrade over vehicle-manufacturer-branded motor oils, delivering purpose-built protection for the hybrid-drive cycle to maximize hybrid engine life, efficiency and performance.

#### COMBATS CORROSION AND WATER CONTAMINATION

Hybrid engines operate intermittently, making them especially vulnerable to corrosion. Infrequent use and reduced load on the ICE leads to lower engine temperatures that are insufficient to completely remove condensation inside the engine by evaporation, which can lead to rust, wear and decreased efficiency. AMSOIL 100% Synthetic Hybrid Motor Oil is formulated with a boosted dose of inhibitors to help prevent condensation-related corrosion and maintain optimal engine performance. It also contains an elevated level of dispersants to manage water that enters through condensation.

#### PROTECTS AGAINST FUEL DILUTION

Frequent stop/start activity can lead to cooler cylinders and incomplete combustion, increasing the likelihood of unburnt fuel leaking down the cylinder walls into the crankcase and contaminating the motor oil — reducing its ability to provide proper lubrication. AMSOIL 100% Synthetic Hybrid Motor Oil is engineered with robust viscosity to combat the negative effects of fuel dilution.

#### CONTROLS VISCOSITY

Because they are used intermittently, hybrid engines endure more frequent starts and stops and motor oil flows intermittently. Therefore, oil needs to flow quickly when the engine engages to reach critical components. The issue is more severe when the engine engages to assist the electric motor during high-load and must instantly reach high rpm. AMSOIL 100% Synthetic Hybrid Motor Oil is formulated to manage those issues with optimal low-temperature viscosity control to ensure rapid protection of components at startup.



- **Purpose built** to combat issues common to HEV and PHEV vehicles
- **100% synthetic** formulation helps maximize fuel economy
- **Corrosion inhibitors** fight corrosion caused by condensation
- **Flows quickly** to reach critical components when engine engages
- **Helps** keep combustion chamber and exhaust system clean
- **API licensed**

## TYPICAL TECHNICAL PROPERTIES

### AMSOIL 100% Synthetic Hybrid Motor Oil

	HE016	HE020
Viscosity 100°C, cSt (ASTM D 445).....	7.4	8.5
Viscosity 40°C, cSt (ASTM D 445).....	37.9	44.3
Viscosity Index (ASTM D 2270).....	166	172
Viscosity CCS, cP (ASTM D 5293).....	4759 (-35)	5295 (-35)
Flash Point, °C (COC) (ASTM D 92).....	218	218
Fire Point, °C (COC) (ASTM D 92).....	234	234
Pour Point, °C (COC) (ASTM D 97).....	-45	-45
NOACK (%WT loss) (ASTM D 5800).....	10.8	10.6
TBN.....	9.0	9.0
HTHS (cP) (ASTM D 892).....	2.44	2.75

## APPLICATIONS

Use AMSOIL 100% Synthetic Hybrid Motor Oil in applications that require any of the following specifications:

**OW-16 (HE016):** API SP (Resource Conserving), SN Plus, SM....; ILSAC GF-6B.

**OW-20 (HE020):** API SP (Resource Conserving), SN Plus, SN....; ILSAC GF-6A, GF-5, GF-4....; GM dexos1\* Gen 3 (supersedes dexos1 Gen 2 and 6094M); Chrysler MS-6395; Ford WSS-M2C962-A1.

## COMPATIBILITY

AMSOIL 100% Synthetic Hybrid Motor Oil is compatible with other conventional and synthetic motor oils. Mixing other oils with AMSOIL motor oils, however, will shorten the oil's life expectancy and reduce its performance benefits. AMSOIL does not support extended drain intervals where oils have been mixed. Aftermarket oil additives are not recommended for use with AMSOIL synthetic motor oils.

## TECHNICAL SERVICES

For immediate answers to your technical questions call 715-399-8324 (TECH) between 8 a.m. and 5 p.m. Central or email [tech@amsoil.com](mailto:tech@amsoil.com).

## SERVICE LIFE

**Normal Service** – Up to 15,000 miles or one year, whichever comes first, in personal vehicles not operating under severe service.

**Severe Service** – Follow the severe-service drain interval prescribed by your vehicle manufacturer in your owner's manual.

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## AMSOIL PRODUCT WARRANTY

Using AMSOIL synthetic lubricants or practicing extended drain intervals does not void your new vehicle or equipment manufacturer's warranty. All AMSOIL lubricants and filters are covered by the AMSOIL Limited Warranty. For complete information visit [AMSOIL.com/warranty.aspx](http://AMSOIL.com/warranty.aspx).

## HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available at [AMSOIL.com](http://AMSOIL.com) or upon request at 715-392-7101. **Keep Out of Reach of Children.** Don't pollute. Return used oil to collection centers.



*The First in Synthetics*®

Jeff Fisher

866-292-4700

[www.SyntheticOils.us](http://www.SyntheticOils.us)

AMSOIL products and Dealership information are available from your local full-service AMSOIL Dealer.