

## *Supreme Synthetic Blend Engine Oils*

**Hartland Supreme Synthetic Blend Engine Oils** deliver exceptional performance and protection for vehicles of all ages. Combining carefully selected conventional and synthetic base oils with our most robust additive package to date provides unmatched protection against low speed pre-ignition even in the most advanced turbo charged applications. Hartland Supreme Synthetic Blend Engine Oils utilize this new additive technology to keep dirt and other contaminants that rob your engine of power out while also ridding the system of sludge and other harmful deposit buildups.

**Hartland Supreme Synthetic Blend Engine Oils** exceed the performance requirements of API's Resource Conserving "SN Plus" and car manufacturers' ILSAC GF-6 classification as well as all prior classifications providing the latest technology in fuel economy standards while also maintaining best in class wear control, cleanliness, protection against sludge, and oxidation control.

**Hartland Supreme Synthetic Blend Engine Oils** were developed in part to provide better vehicle performance as well as low speed pre-ignition (LSPI) protection, particularly for small displacement turbo-charged engines. High quality lubricants like **Hartland Supreme Synthetic Blend Engine Oils** allow turbo-charged and Gasoline Direct inject Engines (GDI) that experience LSPI to safely maintain their efficiency and fuel economy performance.

### **FEATURES/ BENEFITS**

- Low Speed Pre-Ignition (LSPI) – Protection for small displacement turbo-charged GDI engines.
- Excellent Fuel Economy – Resource Conserving Approved
- Maximize Horsepower – Protects engine components from wear leading to loss of power.
- Extreme Condition Performance – Industry leading high temperature deposit control.
- Engine Cleanliness – Up to 40% cleaner pistons than the industry standard.
- Maximum Protection – Additive system imparts a layer of liquid Magnesium on critical engine components reducing sludge, varnish, rust, and corrosion.

### **SPECIFICATIONS & APPROVALS**

**Hartland Supreme Synthetic Blend Engine Oils** (5W-20, 5W-30 and 10W-30) exceed all the following performance requirements or OEM specifications:

API SN-RC, SN Plus and all prior classifications

GMW17332 (5W20)

ILSAC GF-6 and prior classifications

ACEA A5/B5-16

Ford WSS-M2C929-A (5W20 & 5W30)

Chrysler MS-6395

Ford WSS-M2C946-A (5W20 & 5W30)

Fiat H2, M2, N2

**APPLICATIONS**

**Hartland Supreme Synthetic Blend Engine Oils** are specifically designed for use in all gasoline engines, wherever ILSAC GF-6 and API-SN Plus or previous specifications are called for.

<b>SAE Viscosity Grade</b>	<b>5W-20</b>	<b>5W-30</b>	<b>10W-30</b>
<b>Viscosity cSt @ 40°C</b>	49.6	60.1	63.1
<b>Viscosity cSt @ 100°C</b>	8.25	10.2	10.2
<b>Viscosity Index</b>	162	158	150
<b>Pour Point, °C</b>	-42	-48	-46
<b>HTHS @ 150 C</b>	2.75	2.95	>2.9
<b>NOACK Volatility</b>	<13%	<13%	<15%
<b>Flash Point, degC (COC)</b>	230	234	238

Typical test data are average values only.  
Minor variations which do not affect product performance are to be expected during normal manufacturing.