

## *Supreme Synthetic Motor Oils*

**Hartland Supreme Synthetic Motor Oils** are advanced formula 100% Full Synthetic API Licensed SP and ILSAC GF-6A multi-grade engine oils designed for vehicles operating under severe driving or extreme temperature conditions. Compared to conventional motor oils, they provide improved engine cleanliness and high temperature deposit protection. These motor oils also help reduce oil consumption and have exceptional cold flow properties.

- Advanced wear, varnish and sludge protection
- Superior protection against thermal breakdown
- Outstanding resource conserving performance
- Excellent protection from deposits at all operating temperatures
- Excellent anti-wear, anti-foaming, anti-rust and corrosion
- Excellent cold cranking capabilities
- Excellent protection against accelerated oil consumption

**Hartland Supreme Synthetic Motor Oils** are formulated with low friction additives to help improve fuel economy. These motor oils are designed especially for turbo-charged and high RPM engines which experience high heat and need quick flow to critical parts at start up to reduce wear. Hartland Supreme Synthetic Motor Oils are the engine oils of choice for passenger cars, light trucks, powerboats, motorcycles and other stationary and mobile equipment when engine life and performance is important.

**Hartland Supreme Synthetic Motor Oils** exceeds all of the following performance requirements or OEM specifications:

- dexos1™
- SP and all prior classifications
- ILSAC GF-6A and prior classifications
- ACEA A5/B5-16
- GMW 16182, 16181, 17332, 16076
- GM 6094M, GM4718M.
- Ford M2C946-A, M2C947-A, M2C946-B1, M2C947-B1
- BMW LL-01, Chrysler MS-6395, Fiat H2 M2 N2,
- Honda/Acura HTO-06

TYPICAL PROPERTIES				
SAE Grade			5W20	5W30
Density lb/gal			7.2	7.12
API Gravity			34.95	34.85
Cold Crank Simulation mPa/s			5346	3907
Viscosity @ 40°C cSt			47.57	60.48
Viscosity @ 100°C cSt			8.55	10.42
Viscosity Index			159	162
NOACK			13.8	10.8
Color ASTM			3.0	3.0
Water and Sediment (Pass/Fail)			Pass	Pass
Appearance			Clear	Clear
Pour Point °C (°F)			-45 (-49)	-45 (-49)
Flash Point °C (°F)			225 (437)	240 (464)
Ca			2140	2140
P			770	770
Zn			850	850

The values shown here are representative of current production. Some are controlled by manufacturing specifications, while others are not. All of them vary within modest ranges.