



## Product Data Sheet

### *dexos1™ Gen 3 Full Synthetic 0W-20 & 5W30*

**Hartland dexos1™ Gen 3 Full Synthetic** is a new Generation formulation for a new Generation of automobile. Blended with only premium full synthetic base stocks and advanced additive technology to provide the latest protection against Low Speed Pre-Ignition even in the most advanced turbo charged applications. **Hartland dexos1™ Gen 3 Full Synthetic** is a GM licensed motor oil formulated to meet their new Global Engine Oil Specification and supersedes GM-LL-A-025, GM6094M, and GM4718M.

**Hartland dexos1™ Gen 3 Full Synthetic** exceeds the performance requirements of API's Resource Conserving "SP" and car manufacturers ILSAC GF-6A classification as well as all prior classifications providing the latest technology in fuel economy standards while also maintain best in class wear control cleanliness, protection against sludge, and oxidation control.

**Hartland dexos1™ Gen 3 Full Synthetic** was 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 synthetics like **Hartland dexos1™ Gen 3 Full Synthetic** motor oil allow turbo-charged and Gasoline Direct Inject engines (GDI) that experience LSPI to safely maintain their efficiency and fuel economy performance.

#### FEATURES

##### Low Speed Pre-Ignition (LSPI)

- Protection for small displacement turbocharged GDI engines
- Drive an extra 580 miles per year on average
- "Resource Conserving" approved
- Protects engine components from wear leading to loss of power
- Industry leading high temperature deposit control
- Up to 60% cleaner pistons than the industry standard
- Extremely low volatility providing extended drain protection

#### RECOMMENDATIONS

**Hartland dexos1™ Gen 3 Full Synthetic** exceeds all of the following performance requirements or OEM specifications:

- Licensed GM dexos1™ - Gen 3
- SP and all prior classifications
- ILSAC GF-6A and prior classifications
- ACEA A5/B5-16
- GMW 16182, 16181, 17332, 16076
- GM 6094M, GM4718M.
- Ford M2C962-A1, M2C963-A1, M2C946-A, M2C960-A1, M2C961-A1, M2C947-A, M2C946-B1, M2C947-B1
- BMW LL-01, Chrysler MS-6395, Fiat H2 M2 N2,
- Honda/Acura HTO-06

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### TYPICAL PROPERTIES

Hartland dexos1™ Gen 3 Full Synthetic		
SAE Grade	0W-20	5W-30
Viscosity @ 40°C, cSt	42.76	63.15
Viscosity @ 100°C, cSt	8.10	11.20
Viscosity Index	168	175
Pour Point, °C	-51	-48
HTHS @ 150°C	2.6	2.9
Flash Point, °C (COC)	200	210
NOACK Volatiltity	<13%	<13%

The above characteristics are typical of current production. While production will conform to specification, slight variations may occur and do not affect performance.