

## ZEPRO ECO MEDALIST dexos™1 0W-20

### Premium Synthetic Technology Engine Oil

#### Description and Application

ZEPRO ECO MEDALIST dexos™1 0W-20 is a unique, premium synthetic technology engine oil formulated by Idemitsu chemists and engineers to deliver significant and tangible performance, protection and fuel economy benefits to modern, high power-density gasoline engines.

Idemitsu is a leading provider of advanced technology lubricants to many of the world's largest vehicle manufacturers. ZEPRO ECO MEDALIST dexos™1 0W-20 is the first approved dexos™1: 2015 0W-20 oil. The unique formulation utilizes exclusive proprietary friction-reducing and performance enhancing additive components and ultra-stable synthetic base oils to enable new high performance engines, like gasoline direct injection (GDI) and turbocharged GDI (TGDI) engines, to operate at peak efficiency and performance while providing an added level of wear protection and enhanced durability compared to other oils not certified against the latest dexos™1 standard.

#### Features and Benefits

- **Improved Fuel Economy:** Surpasses the most stringent global fuel economy requirements and enables new engine technologies to operate at maximum efficiencies.
- **Enhanced Turbo Protection:** Enhanced thermal stability and high temperature deposit control technology, provides superior protection to TGDI engines.
- **Low-Speed Pre-Ignition (LSPI) Control:** Optimized detergent chemistry effectively eliminates LSPI (also known as stochastic pre-ignition) events, most common in certain TGDI vehicles operating at low-speeds and high-loads.

#### Typical Characteristics

| Test                         | Unit              | Method     | Typical Results  |
|------------------------------|-------------------|------------|------------------|
| Appearance                   | ----              | Visual     | Dark Brown/Clear |
| Density @ 15°C               | g/cm <sup>3</sup> | ASTM D4052 | 0.846            |
| Viscosity, Kinematic @ 40°C  | cSt               | ASTM D445  | 34.9             |
| Viscosity, Kinematic @ 100°C | cSt               | ASTM D445  | 7.91             |
| Viscosity Index              | ---               | ASTM D2270 | 209              |
| Viscosity, HTHS @ 150°C      | cP                | ASTM D4683 | 2.6              |
| Viscosity, CCS @ -35°C       | cP                | ASTM D5293 | 4,750            |
| Viscosity, MRV @ -40°C       | cP                | ASTM D4684 | 11,700           |
| Flash Point, COC             | °C                | ASTM D92   | 230              |
| Noack Volatility             | wt%               | ASTM D5800 | 11.0             |
| Total Base Number (TBN)      | mgKOH/g           | ASTM D2896 | 8.9              |



#### Specifications & Approvals

GM dexos™1: 2015\*

API SN/ILSAC GF-5

GM, Ford, FCA, Honda, Toyota, Mitsubishi Motors, Subaru and other OEM Performance requirements\*\*

*\*GM dexos™1: 2015 is a proprietary GM global performance specification that combines North American, European and specific OEM test requirements. The latest, 2nd generation specification requires improved performance in several key areas and incorporates new tests to address the need for improved turbo deposit control and protection against stochastic pre-ignition (SPI).*

*\*\* Where SAE 0W-20 is specified. Always consult your vehicles maintenance guide for detailed instructions.*



Idemitsu engineers advanced technology engine oils that provide superior fuel economy and unsurpassed engine protection under the most severe operating conditions. It is no surprise that Idemitsu has been selected as the provider of factory and service-fill automotive lubricants to many of the largest global vehicle manufacturers.

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#### Idemitsu is ISO Certified:

ISO 9001:2008  
ISO 14001:2004  
ISO/TS 16949:2009



*Idemitsu Lubricants America Corporation Typical Properties are provided as reference and may vary slightly. They do not constitute a specification. Product formulations and information contained herein are subject to change without notification.*