



NATIONAL™ PREMIUM FULL SYNTHETIC | PCMO

Product Description

NATIONAL PREMIUM FULL SYNTHETIC is formulated with higher quality synthetic base oils and premium additive technology to provide exceptional engine protection even under the extremes of potential operating temperature. It is designed for applications requiring the use of a synthetic grade or for severe service under heavy load operation or extended drain, where the performance benefits of a synthetic oil ensure optimum lubrication. It is specifically formulated to meet the latest industry requirements of enhanced fuel economy performance and robust pre-ignition control as defined by the new ILSAC GF-6 industry standard.

NATIONAL PREMIUM FULL SYNTHETIC is formulated to provide robust performance against all of the key performance elements of the GF-6 specification ensuring that it not only fully meets the warranty requirements of newer turbocharged gasoline direct injection (TGDI) engine types in terms of wear, oxidation control, fuel economy and pre-ignition, but also continues to provide excellent protection against sludge, piston cleanliness, engine rust and corrosion for all engine types under severe service or low temperature operation.

Industry and OEM Specifications

- API SP, SN Plus
- Resource Conserving, ILSAC GF-6A¹
- Resource Conserving, ILSAC GF-6B (0W-16)
- Fully backwards compatible API SN, SM, SL, SJ
- FORD WSS-M2C960-A1 (5W-20)²
- FORD WSS-M2C961-A1 (5W-30)²
- CHRYSLER MS-6395S
- Toyota, Honda, Nissan, and Hyundai³

Applications⁴

Domestic and imported vehicles with Turbocharged gasoline direct-injection (TGDI), conventional gasoline-fueled and flex-fuel passenger cars, light trucks and sport utility vehicles, including gasoline-electric hybrids, especially when operating under severe conditions or anywhere where the manufacturer calls for ILSAC GF-6 or API SP rated oils for engine application.

Features

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Pinnacle Oil believes the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.



NATIONAL™ PREMIUM FULL SYNTHETIC | PCMO

- Formulated to control the potential for timing wear in modern TGDI engines
- Enhanced pre-ignition protection above current API SN PLUS products
- Formulated to protect emissions control system catalysts
- Outstanding low temperature pumpability for protection during cold starts
- Advanced varnish and sludge protection to keep engine clean by minimizing deposit formation

Technical Data



| SAE GRADE | | 0W-16 | 0W-20 | 5W-20 | 5W-30 | 10W-30 |
|--------------------------|-------|------------------|------------------|------------------|------------------|------------------|
| Product Number | | 07-1706287 | 07-130020 | 07-195520 | 07-195530 | 07-195130 |
| SDS Number | | S149 | S149 | S149 | S149 | S149 |
| Viscosity @ 100°C, cSt | D445 | 7.4 | 8.61 | 8.34 | 10.44 | 10.59 |
| Viscosity @ 40°C, cSt | D445 | 37.75 | 45.02 | 45.38 | 59.38 | 65.78 |
| Viscosity Index | D2770 | 166 | 173 | 162 | 166 | 150 |
| Specific Gravity at 60°F | D4052 | 0.8412 | 0.8413 | 0.8425 | 0.84 | 0.8495 |
| Pour Point, °C | D5950 | -51 | -48 | -45 | -48 | -45 |
| Flash Point, °C | D92 | 206 | 204 | 206 | 204 | 205 |
| Color ASTM | D1500 | L3.0 | L3.0 | L3.0 | L3.5 | L3.0 |
| CCS, cP | D5293 | 4,300 (-35°C) | 4,800 (-35°C) | 3,500 (-30°C) | 4,300 (-30°C) | 3,700 (-25°C) |
| Noack Volatility, %w | D5800 | 10 | 10.5 | 7.5 | 8 | 4.5 |
| TBN | D2896 | 7 | 7 | 7 | 7.1 | 7.1 |

1)ILSAC GF-6A: 0W-20, 5W-20, 5W-30 & 10W-30

2)Backwards compatible with Ford WSS-M2C945-B1 (5W-20)/ M2C946-B1 (5W-30) and GM6094M/GM4718M (obsolete)

3)Require ILSAC GF-6 approved oils for service fill. Additional unpublished specifications for factory fill and genuine oils (mostly 0W-20)

4)Always follow operator's manual for recommended viscosity grade and API service classification Certification Mark "Starburst" and the Service Symbol "Donut" are API's trademarks and cannot be used without proper license For GM vehicles model years 2011 and after, see our National™ dexos™ Gen 2

The recommended shelf life for these oils is typically 48 months from manufacturing date when stored properly in the original sealed containers

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Pinnacle Oil believes the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.



Pinnacle Oil Toll Free: 1-800-829-8899 | Tel: 1-317-875-9465 |

www.PinnacleOil.com