Product Data Sheet

PT Maxnitron Max Hybrid

Fully Synthetic Motor Oil for Hybrid and Eco Car

API SQ / ILSAC GF-7A

SAE 0W-20

PT Maxnitron Max Hybrid is a high-quality fully synthetic engine oil formulated with G5 Technology, a proprietary PT Maxnitron innovation, combined with advanced performance additives. It enables engines to operate at peak efficiency, optimizing both torque and power. This oil is suitable for all port fuel-injected (PFI) gasoline engines using unleaded gasoline (ULG) and ethanol-blended fuels (E10, E20, and E85), as well as high-performance gasoline engines, including GDI (Gasoline Direct Injection) and Turbo-GDI, hybrid vehicle engines, and conventional gasoline engines that recommend SAE 0W-20 viscosity oil.

PT Maxnitron Max Hybrid, enhanced with performance additives, helps extend engine life by reducing wear, preventing deposit formation and sludge inside the engine, and protecting the emission control system to ensure it functions at full efficiency.

Customer Benefits

- Enhances engine cleanliness, particularly around the pistons, and helps reduce the occurrence of LSPI (Low-Speed Pre-Ignition) in Turbo-GDI engines.
- Improves wear protection and prevents timing chain elongation, maintaining long-lasting engine performance.
- Provides excellent friction reduction with a strong oil film, ideal for superior acceleration response while also improving fuel efficiency.
- Helps reduce exhaust emissions and carbon dioxide output, contributing to a cleaner environment.
- Offers superior resistance to oil degradation and prevents deposit formation inside the engine, supporting extended oil change intervals.

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Performance Standards

- API SQ
- ILSAC GF-7A

Applications

- Suitable for high-performance gasoline engines, including GDI/Turbo-GDI engines, hybrid vehicles, and eco-cars.
- Recommended for modern passenger cars, sports cars, and SUVs equipped with Start-Stop systems.
- Suitable for gasoline engines with Port Fuel Injection (PFI) using unleaded gasoline (ULG) or ethanol-blended fuels (E10, E20, and E85) that require SAE 0W-20 viscosity grade oil.

Typical Characteristics

Properties	Test instrument	Typical value
Specific Gravity @ 15.6°C (cSt.)	ASTM D4052	0.8476
Kinematic Viscosity @ 40°C	ASTM D445	43.43
Kinematic Viscosity @ 100°C	ASTM D445	8.23
Viscosity Index	ASTM D2270	167
CCS (cP)	ASTM D5293	5813 @ -35°C
Total Base Number, mgKOH/g	ASTM D2896	7
Flash Point (°C)	ASTM D92	236
Pour Point (°C)	ASTM D97	-39
Foam Test (ml/ml)	ASTM D892	Nil/0, Nil/0, Nil/0

*The values stated above represent the current manufacturing standards and are subject to change as necessary to suit each production batch may cause minor differences. However, the products will continue to maintain the same quality characteristics and standards of PT Maxnitron.

(1) Low-Speed Pre-Ignition (LSPI) is the premature ignition inside the cylinder that occurs when the engine operates at low RPM and under high load. This phenomenon typically happens in turbocharged gasoline direct injection (GDI) engines.