



TECHNICAL DATA SHEET

High Performance Motor Oil

ULTRA-LOW VISCOSITY ILSAC GF-6B LICENSED MOTOR OIL

Royal Purple® High Performance Motor Oil combines premium base oils with proprietary additive technologies to create a high-performance synthetic engine oil that optimizes performance and protection. Royal Purple® High Performance Motor Oils carry the current API and ILSAC engine oil licenses.

ILSAC GF-6B

ILSAC GF-6B is the special sub-category for GF-6 that applies ONLY to Ultra-Low Viscosity Grade engine oils. GF-6B is designed specifically to maximize engine fuel economy and efficiency by reducing oil viscosity lower than ever before. GF-6B is NOT backward compatible to cover older API/ILSAC specifications and should not be used in engines that specify ILSAC GF-6A, GF-5, or older ILSAC specs. Applies only to new Ultra-Low Viscosity engine oil viscosity grades including SAE 0W-16.

PERFORMANCE ADVANTAGES

- MAXIMIZED FUEL EFFICIENCY – Optimized oil viscosity and a low coefficient of friction results in maximized fuel efficiency
- ENHANCED WEAR PROTECTION – Robust anti-wear additive technology protects beyond ILSAC GF-6B specifications
- INCREASED PROTECTION AGAINST LSPI - Advanced additive chemistry helps reduce Low Speed Pre-Ignition
- BETTER PROTECTION FOR EMISSIONS EQUIPMENT - Proprietary additive chemistry minimizes the harm to the exhaust catalyst
- IMPROVED COMPATIBILITY WITH FUELS CONTAINING ETHANOL - Proprietary additive technology prevents the white sludge and lubrication starvation that can occur with higher concentration gasoline-ethanol blends
- SUPERIOR CORROSION PROTECTION - No rust observed in standard industry testing

OEM SPECIFICATIONS

SAE 0W-16: Licensed API SP Resource Conserving and ILSAC GF-6B

Typical Physical Properties		
Property	Test Method	0W-16
Viscosity @ 40°C, cSt	ASTM D445	37.1
Viscosity @ 100°C, cSt	ASTM D445	7.3
Viscosity Index	ASTM D2270	164
Cold Crank Simulator, cP	ASTM D5293	3,055 @-35°C
HTHS, @150°C, cP	ASTM D5481	2.4
Flash Point, °C (°F)	ASTM D92	220 (428)
Pour Point, °C (°F)	ASTM D97	-47 (-53)
TBN, mg KOH	ASTM D2896	8.2

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