

**Castrol SYNTEC.** Offering Superior Performance for the Higher Power and Speeds in Today's Engines

Castrol SYNTEC's unique and proprietary formula helps your vehicle maintain maximum horsepower by reducing harmful deposit formation.

Castrol SYNTEC delivers:

- An advanced additive package that neutralizes corrosive particles, preventing them from grouping together and forming power-robbing sludge.
- Stability and endurance under extreme conditions (heat, load, speed) that can cause conventional oils to break down.
- Superior engine protection that outperforms leading conventional and synthetic blend oils, passing severe industry torture tests.

**Castrol SYNTEC exceeds the world's toughest industry protection standards**

**Castrol SYNTEC – Proven Power Technology**

**Available Grades**

- **SAE 0W-20:** Castrol SYNTEC 0W-20 is formulated to meet the needs of modern fuel-efficient vehicles including hybrids, where SAE 0W-20 is endorsed by the manufacturer. SYNTEC 0W-20 is a full synthetic oil that helps extend engine life while delivering maximum fuel economy. SYNTEC 0W-20 is suitable for newer Toyota, Honda, Chrysler and Mercury models. Because of its low viscosity, SYNTEC 0W-20 provides excellent protection in low temperatures. API service SM. SYNTEC 0W-20 meets catalyst/emissions system compatibility and all requirements of ILSAC GF-4/GF-3/GF-2.
- **SAE 0W-30:** Castrol SYNTEC 0W-30 European Formula is engineered to meet the Mercedes Benz 229.5 specification\*. The 0W-30 viscosity grade is ideal for winter conditions where low temperature pumpability is required. A unique, low-temperature formulation provides exceptional pumpability in cold weather and allows for unaided engine starts down to -40°F. Exceeds all car and light truck manufacturer's warranty requirements for the protection of gasoline, diesel and turbocharged engines where API SL, SJ, SH, CF or CD is recommended. Exceeds European ACEA: A3, B3, B4; VW 502 00, 505 00, 503 01; MB 229.1, 229.3, 229.5; BMW LL-01; GM-LLA-025, GM-LL-B-025 and the engine protection requirements of ILSAC GF-3 for API Certified Gasoline Engine Oils.
- **SAE 5W-20:** Castrol SYNTEC is the first major full synthetic oil brand to offer a 5W-20 that is specifically formulated to meet the needs of Ford, Chrysler, Honda and Toyota 5W-20 service. SYNTEC 5W-20 provides excellent cold weather performance and exceeds the stringent performance, fuel economy and fuel economy retention requirements of the ILSAC GF-4 specification. SYNTEC 5W-20 also exceeds the stringent Ford WSS-M2C930-A and Ford WSS-M2C153-H specifications, and exceeds all the requirements of ILSAC GF-4 and GF-3 for API Certified Gasoline Engine Oils. Exceeds API SM.
- **SAE 5W-30:** is the most recommended grade in today's new cars. Exceeds all car and light truck manufacturer's warranty requirements for the protection of gasoline, diesel and turbocharged engines where API SM, SL, SJ, SH, CF or CD is recommended. Exceeds European ACEA: A1, A5, B1, B5, GM 6094M; Ford WSS M2C929-A and all requirements of ILSAC GF-4 for API Certified Gasoline Engine Oils and meets Energy Conserving Standards.
- **SAE 10W30:** is the leading consumer grade. Exceeds all car and light truck manufacturer's warranty requirements for the protection of gasoline, diesel and turbocharged engines where API SM, SL, SJ, SH, CF or CD is recommended. Exceeds European ACEA: A1, A5, B1, B5, GM 6094M and all requirements of ILSAC GF-4 for API Certified Gasoline Engine Oils and meets Energy Conserving Standards.
- **SAE 10W-40:** often used with older cars. Exceeds all car and light truck manufacturer's warranty requirements for the protection of gasoline, diesel and turbocharged engines where API SM, SL, SJ, SH, CF or CD is recommended. Exceeds European ACEA: A3, B3, B4 and the engine protection requirements of ILSAC GF-4 for API Certified Gasoline Engine Oils.

- **SAE 5W-50:** provides the widest range of protection available. SAE 5W-50 delivers exceptional cold temperature pumpability for rapid oil circulation at start-up and provides a thick oil film for ultimate wear protection. Exceeds all car and light truck manufacturer's warranty requirements for the protection of gasoline, diesel and turbo-charged engines where API SM, SL, SJ, SH, CF or CD is recommended. Exceeds European ACEA: A3, B3; Ford WSS-M2C931-A and the engine protection requirements of ILSAC GF-4 for API Certified Gasoline Engine Oils.
- **SAE 5W-40:** is engineered specifically to meet the Volkswagen engine warranty requirements, exceeding VW 502 00 and 505 00. Exceeds all car and light truck manufacturer's warranty requirements for the protection for gasoline, diesel and turbocharged engines where API SL, SJ, SH, CF or CD is recommended. Porsche approved and also exceeds European ACEA: A3, B3, B4, MB 229.3, MB 229.1, BMW LL-98. Meets the engine protection requirements of Volvo, BMW, Mercedes Benz and ILSAC GF-3 for API Certified Gasoline Engine Oils.
- **SAE 20W-50:** provides superior oil film strength and extreme high temperature protection. Exceeds all car and light truck manufacturer's warranty requirements for the protection of gasoline, diesel and turbocharged engines where API SM, SL, SJ, SH, CF or CD is recommended. Exceeds European ACEA: A3, B3, B4, and the engine protection requirements of ILSAC GF-4 for API Certified gasoline Engine Oils.

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SYNTEC

SAE Grade		0W-20	0W-30	5W-20	5W-30	5W-40	5W-50	10W-30	10W-40	20W-50
Viscosity @										
	ASTM D-445	8.8	12.1	9.0	9.7	14.0	17.4	10.1	13.2	19.7
100°C, cst										
	ASTM D-2161	55	66.8	55.8	58.2	74.0	87.6	59.6	70.9	97.2
210°F, SUS										
Low Temperature (°C)	ASTM D-	6200@	6200@	6600@	6600@	6600@	6600@	7000@	7000@	9500@
Cranking Viscosity, cP max	5293	-35	-35	-30	-30	-30	-30	-25	-25	-15
Low Temperature (°C)	ASTM D-	60000@	60000@	60000@	40000@	60000@	60000@	50000@	60000@	60000@
Pumping Viscosity, cP max	4684	-40	-40	-35	-35	-35	-35	-30	-30	-20
	ASTM D-									
Specific Gravity	1298	0.849	0.847	0.848	0.854	0.855	0.852	0.859	0.859	0.862
Pounds Per Gallon		7.03	7.05	7.06	7.11	7.12	7.10	7.15	7.15	7.18

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(over)

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