

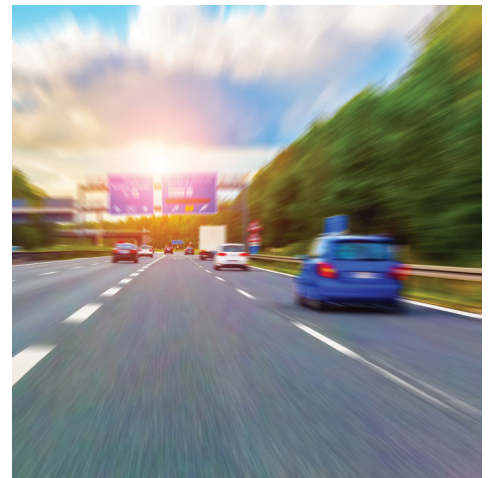
SpecOil

PRODUCT DATA SPECIFICATIONS

SYNTHETIC BLEND MOTOR OIL

OEMs continue to advance engine designs that present new challenges for motor oil and engine protection. SpecOil™ Synthetic Blend 5W-20 and 5W-30 API SP GF-6 Motor Oil takes advantage of the latest technology to deliver extra engine protection, cleanliness. It also provides the following features and benefits:

- Resists thermal breakdown and reduces deposit formation for longer, better engine protection than conventional oils.
- Additives work to keep engines clean.
- Provides a strong film barrier to control friction, resist wear and keep metal surfaces from coming into contact.
- Excellent control of oxidation, sludge and deposits.
- Longer engine oil life.
- Meets or exceeds U.S. and import car and light truck warranty requirements for most automotive gasoline engines currently in use.



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Typical Properties	Test Method	SB 5W-20	SB 5W-30	SB 10W-30
Gravity, °API	ASTM D287	33.28	33.65	31.61
Specific Gravity @ 60 °F (15.6 °C)	ASTM D4052	0.8587	0.8568	0.8675
Flash Point, °C	ASTM D92	220	220	220
Flash Point, °F	ASTM D92	428	428	428
Viscosity @ 40 °C, cSt	ASTM D445	47.49	59.42	68.38
Viscosity @ 100 °C, cSt	ASTM D445	8.35	10.29	9.961
Viscosity Index	ASTM D2270	152	163	141
Pour Point, °C (°F)	ASTM D5950	-45 °C (-49 °F)	-45 °C (-49 °F)	-42 °C (-44 °F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	5000 (-30)	5500 (-30)	4250 (-25)
High Temperature / High Shear Vis at 150 °C, cP	ASTM D5481	2.6	2.99	3.08
Noack Volatility, % loss	ASTM D6375	14	14	14.5
Color	ASTM D1500	3	3	3
Zinc, wt. %	ASTM D5185	0.085	0.085	0.085
Phosphorus, wt. %	ASTM D5185	0.077	0.077	0.077
Calcium, wt. %	ASTM D5185	0.099	0.099	0.099
Sulfur, wt. %	ASTM D4951	0.3	0.3	0.3
Magnesium, wt. %	ASTM D5185	0.059	0.059	0.059
Boron, wt. %	ASTM D5185	0.02	0.02	0.02
Molybdenum, wt. %	ASTM D5185	0.0079	0.0079	0.0079
Sulfated Ash, wt. %	ASTM D874	0.92	0.92	0.92
Nitrogen, wt. %	ASTM D4629	0.087	0.087	0.087
Pumping Viscosity at (°C), cP	ASTM D4684	13,500 (-35)	17,800 (-35)	15,900 (-30)
Shear Stability, Final Viscosity in cSt	ASTM D6278	7.31	8.5	8.54
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0
High Temperature Foaming, static foam	ASTM D6082 (Opt A)	30/0	20/0	20/0
TBN, mgKOH/g	ASTM D2896	7.0	7.0	7.0

Industry/OEM Specifications	SB 5W-20	SB 5W-30	SB 10W-30
★ Approved ● Meets Requirements ○ Suitable for Use – Not Applicable			
API SP	★	★	★
API SN PLUS, SN, SM, SL, SJ, SH, SG, SF, SE, SD, SC	●	●	●
ILSAC GF-6A	★	★	★
ILSAC GF-5, GF-4, GF-3, GF-2, GF-1	●	●	●
Chrysler MS-6395	●	●	●
Chrysler MS-10797	●	–	–
Ford WSS M2C960-A1, M2C945-B1, M2C945-A, M2C930-A, M2C153	●	–	–
Ford WSS M2C961-A1, M2C946-B1, M2C946-A M2C929-A	–	●	–
GM 6094M	●	●	●