

MAG 1[®] FULL SYNTHETIC 5W-20 MOTOR OIL

FULL SYNTHETIC MOTOR OIL PASSENGER CAR MOTOR OIL



MAG 1[®] Full Synthetic 5W-20 Motor Oil is our purest and most advanced formulation. It delivers unsurpassed protection and performance, including the following benefits:

- Engineered to improve fuel mileage and to maximize horsepower and acceleration.
- Longer and better engine protection than conventional oils due to strong and uniform synthetic base oils and advanced molecules that provide a strong film barrier to control friction, resist wear and keep metal surfaces from coming into contact.
- Created for extreme hot and cold driving conditions: stop and go, frequent short trips, heavy loads and dusty conditions.
- Meets or exceeds API SN and ILSAC GF-5 requirements.

FORMULATED FOR TODAY'S ENGINE DESIGNS

OEMs continue to evolve engine designs that demand more from motor oil. One brand has evolved right alongside – MAG 1[®]. It provides unsurpassed protection, even in our lightest viscosities. Protects better than the thick oils of the past.

UNSURPASSED PROTECTION, EVEN IN THE LIGHTEST VISCOSITY

MAG 1[®] with FMX[®] Technology provides unsurpassed protection in every viscosity. Even our lowest viscosity oils protect better than thick oils of the past. Our advanced oil chemistry actually improves oil properties through time, retaining viscosity, friction and anti-wear benefits, in spite of severe engine temperatures.

FULL SYNTHETIC MOTOR OIL FEATURING *EVOLUTIONARY PERFORMANCE*[™]

MAG 1[®] with FMX[®] Technology – Friction Management for Xtreme protection[™] provides these benefits:

PERFORMANCE

Controls friction and wear more than 80% better than the latest API requirements.¹

- Improved fuel economy. Reduces fuel costs without sacrificing engine protection and performance. Also improves acceleration.
- Extended oil drain intervals.
- Engineered to handle the most extreme conditions.
- 100% pure synthetic oils. Contains uniform molecules that provide the best, longest-lasting engine protection and performance.

STRENGTH

Provides a strong oil film to avoid metal-to-metal contact, even under extreme stress.

- Unsurpassed wear protection. Advanced molecules bond together to avoid metal-to-metal contact of rotating engine parts.
- Enhanced friction reduction. MAG 1 oils react to heat to produce a critical friction-reducing barrier that protects metal surfaces.²

DURABILITY

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¹ Based on Sequence IV Wear test.

² To measure friction reduction benefits, engineers used the ball-on-disk traction test.

APPLICATIONS

- Gasoline-fueled and flex-fuel passenger cars, light trucks and sport utility vehicles, including gasoline-electric hybrids, especially when operating under severe conditions.
- Formulated to protect turbochargers and emission control system catalysts.
- Formulated for use in vehicles operating on ethanol-containing fuels up to E85.

INDUSTRY/OEM APPROVALS

API SN	Approved
ILSAC GF-5	Approved
API SH, SG, SF, SE, SD, SC	Meets Requirements
API SL	Meets Requirements
API SM	Meets Requirements
Chrysler MS-10797	Meets Requirements
Chrysler MS-6395	Meets Requirements
Ford WSS M2C945-A, M2C930-A, M2C153	Meets Requirements
GM 6094M	Meets Requirements
ILSAC GF-4	Meets Requirements

TYPICAL PROPERTIES

Boron, wt. %	ASTM D5185	0.023
Calcium, wt. %	ASTM D5185	0.214
Cold Cranking Simulator at (°C), cP	ASTM D5293	4800 (-30)
Color	ASTM D1500	3
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Gravity, °API	ASTM D287	34.54
High Temperature Foaming, static foam	ASTM D6082 (Opt A)	10/0
High Temperature / High Shear Vis at 100°C, cP	ASTM D6616	6.3
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	2.75
Molybdenum, wt. %	ASTM D5185	0.0079
Nitrogen, wt. %	ASTM D4629	0.102
Noack Volatility, % loss	ASTM D6375	9.5
Phosphorus, wt. %	ASTM D5185	0.079
Pour Point °C (°F)	ASTM D5950	-45°C (-49°F)
Pumping Viscosity at (°C), cP	ASTM D4684	14,282 (-35)
Shear Stability, Final Viscosity in cSt	ASTM D6278	8.07
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8522
Sulfated Ash, wt. %	ASTM D874	0.92
Sulfur, wt. %	ASTM D4951	0.306
TBN, mgKOH/g	ASTM D2896	7.9
Viscosity @ 100°C cSt	ASTM D445	8.835

Viscosity @ 40°C cSt	ASTM D445	50.93
Viscosity Index	ASTM D2270	153
Zinc, wt. %	ASTM D5185	0.085

CONTAINER/BULK AVAILABILITY

330 Gallon Tote	Product Number - 65474
55 Gallon Drum	Product Number - 64101
6 Gallon Enviro-Box	Product Number - 65445
3/5 Quart	Product Number - 64192
6/1 Quart	Product Number - 61792

Available in Bulk

Information accurate as of August 8, 2017