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TECHNICAL PRODUCT SHEET

MAX X-100

5W—30, 5W—40, 10W—30, 10W—40

DESCRIPTION

MAX X-100 is a synthetic-blend motor oil series engineered to deliver superior performance in modern gasoline and diesel powertrains. Formulated with high-quality base oils and advanced additive technology, it ensures excellent engine cleanliness, robust wear protection, and effective control of deposit formation. The series meets the stringent performance requirements set by leading European and U.S. automotive manufacturers, providing reliable lubrication and long-term engine durability under a wide range of operating conditions.

APPLICATIONS

MAX X-100 lubricants are designed for use in all 4-stroke gasoline and diesel engines found in passenger cars and light trucks, offering reliable performance across a wide range of engine technologies. Their formulation supports high-revving engines equipped with catalytic or non-catalytic converters, including turbocharged and multi-valve configurations. Engineered for versatility, they perform effectively under diverse operating conditions, from frequent stop-and-go city driving to sustained motorway speeds—and are suitable for extended drain intervals. Additionally, MAGMA X-100 oils are compatible with gas-fueled (LPG) spark-ignition engines, ensuring stable lubrication and protection across varied fuel systems.

SPECIFICATIONS

API	SN *(Approved for 5W-40 & 10W-40)*	MB	229.1
API	SN (Performance level for 5W-30)	VW	501.00/505.00
API	SL *(Approved for 10W-40 & 5W-30,*	FIAT	FIAT 9.55535- M2 (Performance level for 5W-40)
API	SL (Performance level for 5W-40 & 10W-30*)*	FIAT	FIAT 9.55535- D2 (Performance level for 10W-40)
API	CF	JASO	MA2 (5W-40, 10W-30)
ACEA	A3/B3		
ACEA	A3/B4		

PROPERTIES

MAX X-100 series demonstrates excellent viscosity retention within grade limits, ensuring consistent film strength and stable performance throughout the service interval. Its versatile formulation makes it suitable for both older and modern engine technologies, providing broad application coverage. High thermal stability and strong oxidation resistance protect the oil from degradation under elevated temperatures, while advanced detergent–dispersant properties maintain high cleanliness levels, effective wear protection, and efficient soot control. The optimized formulation also contributes to improved fuel economy by reducing frictional losses and supporting efficient engine operation.

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BENEFITS

MAX X-100 series ensures rapid oil circulation during cold starts, minimizing friction and wear at start-up while maintaining effective lubricity under high-temperature operating conditions. Its stable formulation supports extended drain intervals, contributing to reduced maintenance and operating costs. Advanced deposit-control chemistry protects against varnish and sludge accumulation in critical areas such as piston rings and valve trains, preserving engine cleanliness and operational efficiency. Enhanced combustion stability and cleaner engine operation also contribute to lower exhaust emissions, supporting sustained performance throughout the service life.

PHYSICAL-CHEMICAL CHARACTERISTICS

MAX X-100	METHOD	SAE 5W-30	SAE 5W-40	SAE 10W-30	SAE 10W-40
Density at 15°C, g/cm^3	ASTM D4052	0.855	0.868	0.883	0.862
Dynamic viscosity, °C/cp	ASTM D5293	-30°C/5,900	-30°C/5,700	-25°C/5,200	-25°C/5,550
Viscosity, Kinematic (cSt) 100°C	ASTM D445	11.0	14.2	11.0	14.3
Viscosity, Kinematic (cSt) 40°C	ASTM D445	64.2	86.6	69.4	98.5
Viscosity index	ASTM D2270	164	170	150	157
TBN, mgKOH/g	ASTM D2896	10.4	10.4	10.4	10.4
Flash point, COC, °C	ASTM D92	232	234	238	240
Pour point, °C	ASTM D97	-36	-33	-33	-33
HTHS Viscosity @150^{0}C, cp	ASTM D4683	3.55	3.92	3.57	4.05

The abovementioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.

HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).

USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

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Produced and Packaged in E.U.
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