



# MAGMA SUPER



## DESCRIPTION

MAGMA SUPER are high performance mineral motor oils suitable for the lubrication of 4-stroke gasoline and diesel-powered passenger cars. MAGMA SUPER oils are formulated with high performance additives. They provide excellent engine cleanliness and longlasting protection against harmful carbon deposits built up in critical engine parts of, such as the turbocharger. They comply with the requirements of the strictest specifications of European, Japanese and US automotive manufacturers.

## APPLICATIONS

MAGMA SUPER oils are suitable for passenger cars equipped with catalytic/not catalytic converters, including turbocharged and multi-valve models. They are excellent for high-rev direct/indirect injection engines of cars and small trucks. They can be used for the lubrication of diesel engines that equip light duty trucks. MAGMA SUPER series lubricants are recommended for all-season use under normal operating conditions. They are ideally suitable for older technology cars.

## CHARACTERISTICS-BENEFITS

CHARACTERISTICS	BENEFITS
High viscosity index multigrade oils.	Better pumpability, protection during cold start-up; suitable for all-season use.
Low volatility.	Minimization of oil consumption; extended oil drain intervals.
Low ash content.	Catalyst prolonged life.
Outstanding wear and rust protection of engine's critical parts.	Cost reduction in operation and maintenance.
Exceptional thermal and oxidation stability.	Minimization of hard deposits and sludge formation during hot running operation conditions; increase of engine efficiency.

## PHYSICAL-CHEMICAL CHARACTERISTICS

MAGMA SUPER	METHOD	SAE 15W-40	SAE 15W-50	SAE 20W-50
Density at 15°C, g/cm <sup>3</sup>	ASTM D1298	0,875	0,870	0,883
Dynamic viscosity, cP/°C	ASTM D5293	-20/6600	-20/6600	-15/7900
Viscosity, Kinematic (cSt) 100 <sup>0</sup> C	ASTM D445	14,0	18,8	19,1
Viscosity, Kinematic (cSt) 40 <sup>0</sup> C	ASTM D445	101,5	144,0	171,5
Viscosity index	ASTM D2270	140	148	127
Flash point, COC, °C	ASTM D92	234	228	237
Pour point, °C	ASTM D97	-30	-30	-27
TBN, mgKOH/g	ASTM D2896	10,4	10,4	10,4

The above-mentioned characteristics represent mean values.

## SPECIFICATIONS

API SL, CF; ACEA A3/B3, A3/B4; VW 501.01/505.00; MB 229.1; JASO MA2

## APPROVALS

SAE 15W-40: API SL