

# PETRONAS MACH 5 SM

## Extra High Performance Multigrade Engine Oil Exceeding the Latest API SM Specification

Petronas Mach 5 is an extra high performance multigrade engine oil specially designed and formulated to provide very high level of engine protection and superior performance in engines running under the most severe driving conditions. It is exclusively formulated with premium quality unconventional base oils and advanced additives technology to provide the outstanding thermal and oxidation stability that ensure minimum oil thickening at very high operating temperature, excellent deposits control and minimized engine wear and tear.

Engineered based on extensive field, racetrack, rally and testing experiences over many years, Petronas Mach 5 provides the outstanding performance lubricant that ensure complete engine protections especially for engines operating under the most severe operating conditions throughout today's long drain interval.

### Applications

Recommended for use in all types of passenger cars especially the latest model high performance cars fitted with fuel injections, multi-valves, turbochargers or superchargers operating under the most extreme conditions. Also suitable for engines requiring API SL, SJ, SH, SG or lower performance levels.

### Customer Benefits

- Outstanding engine protection at all driving conditions
- Prolong engine life
- Outstanding engine cleanliness - protects against engine sludge and varnish deposits
- Resists viscosity and thermal breakdown even under the most severe service
- Very high shear stability – stay in grade
- Easier cold engine starting – minimize friction and wear during start-up

### Product Typicals

SAE Grade	Mach 5 SM
Characteristics	20W-50
Density @ 15 °C, kg/l	0.882
Pour Point, °C	-27
Flash Point, °C	228
Kinematic Viscosity, cSt	
@ 40 °C	164.5
@ 100 °C	18.3
Viscosity Index	124
Cold Cranking Visc, cP	
@ - 15 °C	7,150
Sulphated Ash, %wt	0.84
TBN, mg KOH/g	8
ASTM Colour	3.0

### Specifications

Standards	Mach 5 SM
	SAE 20W-50
API	SM/CF
ILSAC	-
ACEA	A3-98/B3-98
DaimlerChrysler	MB 229.1
Volkswagen	VW 501 / 505

### Customer Advice

For further assistance on product MSDS, recommendation or technical queries, please liaise with the regional technical services engineer or contact HQ technical engineers.