



PRODUCT DATA SHEET

**4-stroke Semi-Synthetic
Motorcycle Engine Oil**

**API SM
JASO MA/MA2**

Description:

4T JASO MA/MA-2 API SM oil is supreme quality synthetic blend lubricant specially designed to ensure good protection for the engine, wet clutch and gearbox used by all 4-stroke motorbikes. They are formulated with a unique additive package chosen and a mixture of high-tech synthetic and premium quality base stocks for exceptional wear protection, sludge and varnish resistance, and thermal stability. The slippage of the clutch system is minimized by the increased friction between the clutch plates; this then enables the power output to be increased at the rear tire. Improve power output and more reliability at the same time.

Benefits:

- Help engine reach maximum performance and power, quick starting up
- Protect well heavy loaded parts in very severe conditions of operating : high speed, high temperature, rough roads
- Anti-wear properties, lower corrosion and friction. Provide excellent protection for transmissions and wet clutches
- Help reduce foaming and air-entrainment in high speed engines
- Help engine running smoothly and freshly
- Excellent fuel saving, lengthen the oil changing intervals, economize everything. Prolong engine life
- Provide good characteristics in harmful deposit control to help keep the engine and gearbox running cleaner and provides good gearbox protection for incorporated gearboxes

Application:

- Wet-clutch compatible. Recommended for motorcycles where an API SM or JASO MA fluids are specified.
- Can be used in high-powered motorcycles. Optimized for lubrication systems where engine, gearbox and clutch are integrated (wet sump).
- Suitable for motorcycles running in cold weather conditions.
- Recommended for all types of 4-stroke motorcycles of manufacturers including HARLEY-DAVIDSON, HONDA, SUZUKI, YAMAHA, KAWASAKI, SYM, etc.

Typical Characteristic:

PARAMETERS	UNIT	Typical Specs		TEST METHODS
		10W-40	15W-40	
Kinematic Viscosity @ 100°C	mm ² /s	13.5 – 15.5		ASTM D7042
Viscosity Index	-	Min. 135		ASTM D2270
Total Base Number	mg KOH/g	Typical 7.2		ASTM D2896
Flash Point	°C	Min. 190		ASTM D93
Pour Point	°C	Max. -30	Max. -25	ASTM D97
CCS @ -25°C (10W) -20°C (15W)	cP	Max. 7000		ASTM D5293

Product Performance Claim:

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Safety Information:

4T SAE 10W-40 API SM is unlikely to present any significant health or safety hazard when properly used in recommended application and if good standards of industrial and personal hygiene are maintained.

- **Eye:** If irritation or redness develops, flush eyes with clean water. If symptoms persist, seek medical attention.
- **Skin:** Wipe material from skin and wash with mild soap and clean water. If irritation or redness develops, seek medical attention.

Storage:

All packages should be stored under cover. Where outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should be kept in a cool, dry, well ventilated place not above 60 degree Celsius.

Protect the Environment:

Dispose used oil to an authorized collection point in compliance to the local authority regulation. Do not discharge used oil into drains, soil or water.