



PRODUCT DATA SHEET

MOTORCYCLE ENGINE OIL

SAE 10W-60 Fully Synthetic

API SN | JASO MA2

M10W60F

Rev 1
21 June 2026

Maximum film. Maximum temperature. Track-capable protection.

WHAT IT IS

TWIIN 4T SAE 10W-60 is a fully synthetic motorcycle engine oil built on an MPAO and ester base stock blend. It delivers the thickest oil film in the TWIIN range at operating temperature — 23.5 cSt at 100°C — formulated for high-performance engines that generate extreme heat under sustained stress. JASO MA2 rated, with a flash point above 248°C. For riders who push their engine to its limits, this is the grade that holds.

APPLICATION GUIDE

Which bikes	High-performance and track-oriented 4-stroke motorcycles with wet-clutch gearboxes. Litre-class and supersport engines, heavily modified engines, and any application where the manufacturer specifies 10W-60 or where 10W-50 has proven insufficient under sustained load.
Why 10W-60	At 100°C, 10W-60 delivers 23.5 cSt — 64% more film thickness than a 10W-40 and 26% more than a 10W-50. In engines under extreme heat and mechanical stress, that margin keeps metal surfaces separated when thinner oils would begin to fail.
Track use	The ester base stock's high-temperature adhesion properties make this grade particularly suitable for track days where sustained high-rev operation pushes oil temperatures well beyond street riding ranges.

FEATURES AND BENEFITS

Maximum film thickness	23.5 cSt at 100°C — the highest in the TWIIN range. Keeps metal surfaces separated under extreme mechanical load and sustained high temperatures.
Extreme temperature stability	Flash point above 248°C. Oil does not vaporise or break down at the elevated sump temperatures generated by high-performance engines under sustained load.
Wet-clutch compatibility	JASO MA2 certified. No friction modifiers. Clean clutch engagement is maintained even under aggressive track use.
Shear stability	Ester base oil resists viscosity shear in high-stress gearboxes — the 10W-60 grade is maintained throughout the drain interval, not just at oil change.
Cold-start protection	"10W" cold rating ensures rapid oil flow on startup. Protection begins immediately — not after the engine has warmed up.

SPECIFICATIONS

TWIIN recommends this product where the following OEM specifications apply:

API Service Category	API SN
JASO Standard	JASO MA2
SAE Viscosity Grade	10W-60
Packaging	1 litre flexible pouch — 80–90% less plastic than a traditional rigid bottle

TYPICAL PHYSICAL CHARACTERISTICS

Typical values based on manufacturer test data. Not a product specification. Batch values may vary within grade limits.

Property	Test Method	Typical Value
Specific Gravity (60/60°F, g/mL)	ASTM D1298	0.85
Flash Point, COC (°C)	ASTM D92	>248°C (COC, ASTM D92)
Kinematic Viscosity @ 40°C (cSt)	ASTM D445	163
Kinematic Viscosity @ 100°C (cSt)	ASTM D445	23.5
Viscosity Index	ASTM D2270	163
Pour Point (°C)	ASTM D97	-33

Safety Data Sheet: SDS No. M10W60F is available at twiin-oil.com. Always read the SDS before handling this product.

The information in this Product Data Sheet is based on data believed to be reliable at the date of issue and is provided in good faith. Typical physical characteristics are representative values only and should not be interpreted as product specifications. TWIIN PTE. LTD. accepts no liability for results arising from use of this product in conditions or applications not covered by this document. Users are responsible for determining suitability for their specific application and for compliance with all applicable laws and regulations. No warranty, express or implied, is made as to merchantability or fitness for purpose.