

TECHNICAL DATA SHEET

ECO MATIC 20W-50 SN/4T

High-Performance Synthetic 4-Stroke Motorcycle Engine Oil

API SN • JASO MA2

PRODUCT DESCRIPTION

ECO MATIC 20W-50 SN/4T is a high-performance synthetic blend motorcycle engine oil engineered for motorcycles operating under extreme heat and heavy load. Compliant with API SN and JASO MA2, it delivers superior film strength, outstanding thermal stability, and reliable clutch performance in demanding, high-temperature tropical riding conditions. The robust 20W-50 viscosity profile ensures strong oil film retention even at elevated engine temperatures.

APPLICATIONS

Ideal for 4-stroke motorcycles operating in high-ambient-temperature environments and under high engine loads, requiring API SN / JASO MA2 grade oil with 20W-50 viscosity. Suitable for sport, commuter, and delivery motorcycles in tropical markets. Available in 0.8L, 1L, 4L, and 200L pack sizes.

PERFORMANCE STANDARDS

API SN • JASO MA2

FEATURES & BENEFITS

- Meets API SN and JASO MA2 — maximum protection grade for 4-stroke motorcycles
- Robust 20W-50 high-temperature film strength for severe-duty performance
- Excellent thermal stability under sustained high-temperature operation
- Superior wear protection for pistons, rings, and camshaft components
- Smooth and consistent clutch engagement — JASO MA2 compliant
- Strong detergent and dispersant additive package for engine cleanliness
- Good resistance to oil oxidation and volatility loss

TYPICAL PROPERTIES

TEST PARAMETER	TEST METHOD	TYPICAL VALUE
Appearance	Visual	Clear, Amber Liquid
SAE Viscosity Grade	—	20W-50
API Service Classification	—	SN
JASO Standard	—	MA2
Kinematic Viscosity @ 40°C (cSt)	ASTM D445	155
Kinematic Viscosity @ 100°C (cSt)	ASTM D445	19.5
Viscosity Index	ASTM D2270	130 min
Flash Point, COC (°C)	ASTM D92	230 min
Pour Point (°C)	ASTM D97	-25 max
Total Base Number (mg KOH/g)	ASTM D2896	8.5 min
Density @ 15°C (kg/L)	ASTM D4052	0.878
HTHS Viscosity @ 150°C (mPa·s)	ASTM D4683	3.7 min
JASO DKA Clutch Friction Characteristics	JASO T903	Pass MA2

STORAGE & HANDLING

Store the product indoors and avoid direct sunlight or heat. Keep containers tightly closed when not in use. Avoid contact with skin and eyes. After skin contact, wash thoroughly with soap and water. Keep out of reach of children.

DISCLAIMER: The information provided in this Technical Data Sheet is based on standard laboratory tests and is indicative only. Synergy Lubricant and Chemical makes no warranty regarding the accuracy of this data. Typical values may vary within acceptable production tolerances.

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