

TECHNICAL DATA SHEET

KATMOTO K9 ECO 0W-20

Ester Fully Synthetic Hybrid & Fuel Economy Engine Oil

Product Name	K9 ECO 0W-20	Specification	0W-20
Product Type	Ester Fully Synthetic Engine Oil	Performance Level	API SQ/SP, ILSAC GF-7A
Series / Category	Hybrid Engine Oil	Application	Hybrid / Japanese & Korean New Vehicles

Product Description

KATMOTO K9 ECO 0W-20 is an ester fully synthetic fuel-economy engine oil developed for hybrid vehicles and new-generation gasoline engines requiring SAE 0W-20 API SQ/SP and ILSAC GF-7A performance. The balanced low-viscosity formulation supports fuel economy, fast cold-start lubrication, LSPI protection, timing chain wear control and long-lasting engine cleanliness in frequent start-stop urban driving.

Key Performance Features

ILSAC GF-7A fuel economy and modern engine protection.	Hybrid start-stop protection for frequent urban driving.
Fast cold-start flow helps reduce start-up wear.	LSPI and timing chain wear control for TGDI engines.
Ester-enhanced lubricity for smooth and efficient operation.	Clean engine performance with sludge and deposit control.

Applications & Performance Level

Applications	Hybrid vehicles, fuel-economy gasoline engines and new-generation passenger cars requiring SAE 0W-20 API SQ/SP ILSAC GF-7A engine oil.
Suitable For	Toyota, Honda, BYD and other hybrid/gasoline passenger cars where 0W-20 API SQ/SP or ILSAC GF-7A oil is specified.
Important Notice	Use only where SAE 0W-20 is recommended. Not intended for engines requiring 0W-8, 0W-16, 5W-30, ACEA C3, diesel CK-4 or OEM-specific high-HTHS oils.

Typical Technical Data - Balanced Formulation Target

Property	Test Method	Target Typical Value
Appearance / Color	Visual	Clear amber liquid
SAE Viscosity Grade	SAE J300	0W-20
Density @ 15°C	ASTM D4052	0.850 g/cm ³
Kinematic Viscosity @ 40°C	ASTM D445	44.8 mm ² /s
Kinematic Viscosity @ 100°C	ASTM D445	8.5 mm ² /s
Viscosity Index	ASTM D2270	172
CCS Viscosity @ -35°C	ASTM D5293	5,300 mPa·s

Property	Test Method	Target Typical Value
MRV Viscosity @ -40°C	ASTM D4684	17,500 mPa·s
HTHS Viscosity @ 150°C	ASTM D4683	2.65 mPa·s
Pour Point	ASTM D97	-45°C
Flash Point, COC	ASTM D92	224°C
Noack Evaporation Loss	ASTM D5800	9.5 % mass
Total Base Number (TBN)	ASTM D2896	7.8 mg KOH/g
Sulfated Ash	ASTM D874	0.78 % mass
Phosphorus	ASTM D5185	0.075 % mass

Note: These are balanced formulation target values prepared with reference to market-leading products of similar specification and application. Unless separately stated, listed performance levels are suitability references rather than official OEM approvals. Final production values should be confirmed by official KATMOTO TDS and laboratory test report.