

ELF MOTO 2 DX RATIO

ELF MOTO 2 DX RATIO is a lubricant based on selected mineral oils. This bottom-end product ensures **multi-protection of 2-stroke engines** and offers a **rational alternative quality**.

USE

Motorcycle application	ELF MOTO 2 DX RATIO is appropriate to any 2-stroke engine motorcycle .
Recommendation	This product is recommended for all standard engines. The rational formula guarantees improved functional and faultless protection under every urban and rural traffic conditions .
Suggestions for use	Compatible with unleaded fuels, pre-diluted for use as a separate or mixture lubrication system. The oil content is to be adapted according to manufacturer recommendations. The components of the formula are suitable for 2-stroke catalytic converters .

SPECIFICATIONS

Selected mineral bases	ELF MOTO 2 DX RATIO is a 2-stroke engine oil based on selected mineral oils .
SAE 30	The fluid viscosity (SAE 30) and the appropriate solvents in ELF MOTO 2 DX RATIO facilitate miscibility between the lubricant and the fuel. A consistent mixture guarantees constant lubricating quality independent of the chosen lubricating system.
ISO-L-EGB JASO FB Reduced smoke	The exhaust emissions and fouling are kept under control. Reduced smoke emissions are obtained by the choice of components in the formula.
Anti-deposit-technology	The level of detergents and the deposit on the piston surface exceed the level required by specification ISO-L-EGB (<i>International Standards Organization</i>).
API TC	ELF MOTO 2 DX RATIO exceeds the level required by the API TC (<i>American Petroleum Institute</i>) specification required by international motorcycle manufacturers.

CUSTOMER BENEFITS

Clean combustion and anti-deposit technology

The clean burning of the mixture ensures **thermal degradation of additives** and base oils. An insufficient engine temperature, lubricants containing too many additives and not compatible with the type of motorcycle, lead to the fouling of the engine and its surrounding accessories.

These oily emissions are evacuated from the combustion chamber towards the **exhaust system**. On contact with cold parts, they deposit, reducing the volume of the gas emissions circuit. A considerable loss of engine power ensues.

Detergent, dispersant and anti-wear additives in ELF MOTO 2 DX RATIO act to avoid degradation by wear on moving parts. This guarantees a **long engine life** combined with lower **maintenance costs** (servicing and repair).

JASO M 343 test
Suzuki SX 800 R engine

The rational formulation of ELF MOTO 2 DX RATIO exceeds the fouling level measured on the exhaust system. The fouling index required for ISO-L-EGB and JASO FB

international specifications is 47 (indices calculated with respect to the JATRE 1 reference oil, see graph).

Reduced emissions

Increasingly tight **legislation** demands innovative lubricant formulations. **Reduced emissions** are obtained by means of selected solvents and polymers.

JASO M 342 test
Suzuki SX 800 R engine

The smoke index level required by international specifications (ISO-L-EGB, JASO FB) is 45 (calculated with respect to the JATRE 1 reference oil, see graph). ELF MOTO 2 DX RATIO reduces exhaust emissions and the appearance

of smoke on starting thanks to the quality of the components in the chosen formula (see graph).

Product positioning

The ELF MOTO 2 DX RATIO product is a **bottom-end product**. Other higher physical-chemical performance levels and product profiles are available in the ELF motorcycles range.

ELF MOTO 2 DX RATIO PROFILES	REFERENCE
Wear-binding safety margin	***
Engine power efficiency	***
Extreme pressure properties	***
Base oil lubrication	***
Selected additivition	**
Anti-oxidant, -corrosion, -rust power	**
Dispersion, Detergence	**
Resistance to thermal shock	***
Exhaust system cleanliness	***
Emission reduction	**
Scale graded from * to ****	

CHARACTERISTICS

PHYSICAL-CHEMICAL PROPERTIES ELF MOTO 2 DX RATIO

Density at 15 °C (ASTM 1298)	0.8825	
Color (visual appearance)	Green	
OC flash point (ASTM D 92)	242	°C
Kinematic viscosity at 40 °C (ASTM D 445)	70.2	mm ² /s
Kinematic viscosity at 100 °C (ASTM D 445)	9.3	mm ² /s
Sulfated ash content (ASTM D 878)	0.04	% weight
Pour point (ASTM D97)	-27°	°C

AFAQ ISO 9001 CERTIFICATION number 1993/900c

The characteristics in this table are averages given for information only.



This lubricant, used according to our recommendations and for its designed application, does not represent any particular risk

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A safety data sheet in conformity with the legislation now current in the EC is available from your local sales advisor.

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