

ELF MOTO 2 XT TECH

ELF MOTO 2 XT TECH is a **100% synthetic lubricant** forming part of a new high technicity generation for **2-stroke motorcycle engines**. A top-line innovative formulation offer **guaranteed engine power and cleanliness** thanks to active deposit control (anti-deposit technology). The chosen components provide a high level of **engine safety** and of its surrounding equipment, **for any extreme and lasting application**.

USE

Motorcycle application	ELF MOTO 2 XT TECH has been developed more specifically for 2-stroke motorcycles under demanding mechanical conditions.
Recommendation	This top-line product is appropriate for severe urban traffic conditions (thermal loads) and for off-road endurance uses.
Suggestions for use	The composition of ELF MOTO 2 XT TECH is totally compatible with unleaded fuels . The product is pre diluted and therefore suitable for separate greasing and mixing. The oil content is to be adapted according to manufacturer recommendations. The components of the formula are suitable for 2-stroke catalytic converters .

SPECIFICATIONS

100% synthetic	ELF MOTO 2 XT TECH has been designed with entirely synthetic base oils to ensure safety and performance for top-end engines. The engine power supported by 100% synthetic bases exceeds those of mineral or semi-synthetic references.
SAE 30	The fluid viscosity (SAE 30) and the appropriate solvents used in ELF MOTO 2 XT TECH ease miscibility between the lubricant and the fuel. The consistent mixture guarantees a constant lubricating quality, independent of the chosen greasing system.
ISO-L-EGD Anti-deposit-technology	The hot detergence level regarding the formation of deposits and the active reduction of exhaust system fouling exceed the level required by the ISO-L-EGD (<i>International Standards Organization</i>) specification.
JASO FC Smokefree	The synthetic components in ELF MOTO 2 XT TECH visibly reduce smoke outlet (Smokefree) at the exhaust (<i>Japanese Automobile Standards Association</i>).
API TC	ELF MOTO 2 XT TECH more than exceeds the requirements of the API TC (<i>American Petroleum Institute</i>), the level required by international motorcycle manufacturers.

CUSTOMER BENEFITS

Engine lubrication and maintained power yield	2-stroke engines require specific lubricants . ELF MOTO 2 XT TECH is premixed with the fuel or injected directly into the air-fuel mixture (separate lubrication). On contact with hot parts, the gasoline evaporates and separates from the mixture. A fog of fine droplets falls onto the bearings and pistons, forming a film of oil.
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JASO M 340 test Honda DIO AF 27 engine	The additives and base oils in ELF MOTO 2 XT TECH maintain hydrodynamic lubrication while maintaining the engine power at its original output.
	The lubricating index of ELF MOTO 2 XT TECH under JASO M 340 test conditions (Honda DIO AF 27) exceeds by 18% the demands of international specifications ISO-L-EGC/EGD and JASO FC (see graph).
Control of piston lining/ring wear	The fouling of the grooves at the top of the piston minimizes piston ring flexibility (seizing) and generates an oil supply fault. Ring friction against the liner tears off metal particles, causes adhesive scuffing on the piston, until seizing occurs.
Binding test Honda RS 250 engine Duration 40 minutes	The design of ELF MOTO 2 XT TECH with synthetic base oils improves the anti-wear properties of the lubricant. The ELF MOTO 2 XT TECH grading on the binding test with a HONDA RS 250, 93 piston engine, with unleaded fuel (see graph) is: ⇒9.7 out of 10 (grade at piston bottom)
	⇒8.2 out of 10 (groove grading). The grading represents the cleanliness.
Clean combustion and anti-deposit technology	Metal particles, degradation products of the additives and the fuel and any excess lubricant in the combustion chamber can cause deposits to form. The partial build-up of these deposits on the piston head causes a decrease in calorific exchanges and generates high local temperatures. The incandescence of the deposit causes the thermal screen to spread, increasing the risk of mixture preignition. This interferes with the 2-stroke cycle of the crankshaft and can cause the connecting rod to break; the piston can even pierce the housing .
CEC L-58 X-94 test Honda DIO AF 27 engine Duration 3 hours	The level of detergency and the testing of ELF MOTO 2 XT TECH deposit formation is in excess of the ISO-L-EGD requirements. The detergency additives in ELF MOTO 2 XT TECH act in terms of their hot properties on deposits. The oil burns without any deposits forming (clean combustion).
Cold detergent properties and cleanliness of exhaust system	Greasing emissions are evacuated from the combustion chamber towards the exhaust . On contact with cold parts, they are deposited, reducing the volume of the gas emissions circuit. This results in a considerable loss of engine power.
JASO M 343 test Suzuki SX 800 R engine	The high performance additivation of ELF MOTO 2 XT TECH exceeds the level required by international specifications by 29%. The complete combustion of ELF MOTO 2 XT TECH reduces any excess lubricant evacuated from the combustion chamber towards the exhaust. Detergent additives control the cleanliness

of the exhaust system.

Reduced exhaust emissions

Increasingly tight legislation demands innovative lubricant formulations. ELF MOTO 2 XT TECH **reduces emissions** through its solvents and its selected polymers. Ecological products are obtained by selecting partially biodegradable synthetic base oils.

JASO M 342 test
Suzuki SX 800 R engine

The smoke index of ELF MOTO 2 XT TECH improves by 39% the minimum smoke index required by international specifications ISO-L-EGC/EGD and JASO FC.

Product positioning

The ELF MOTO 2 XT TECH product is at the **top-end of the range**. Other physical-chemical performance levels and different product profiles are offered in the ELF motor-cycles range.

ELF MOTO 2 XT TECH PROFILE

Wear-binding safety margin
Engine power efficiency
Extreme pressure properties
Base oil lubrication
Selected additivation
Anti-oxidant, -corrosion, -rust power
Dispersion, Detergence
Resistance to thermal shock
Exhaust system cleanliness
Emission reduction

REFERENCE

Scale graded from * to *****

CHARACTERISTICS

PHYSICAL-CHEMICAL PROPERTIES

ELF MOTO 2 XT TECH

Density at 15 °C (ASTM 1298)	0.88	
Color (visual appearance)	Blue	
OC flash point (ASTM D 92)	108	°C
Kinematic viscosity at 40 °C (ASTM D 445)	75,3	mm ² /s
Kinematic viscosity at 100 °C (ASTM D 445)	11,3	mm ² /s
Sulfated ash content (ASTM D 878)	0,12	% weight
Pour point (ASTM D97)	<= -36	°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

ELF MOTO 2 XT TECH

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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