

“Leaded competition fuel for 2-stroke engine”



Using pure bases, our formulas guarantee naturally stable, long-lasting properties, consistent from one production batch to another. This search for constant and optimum quality gives you first class performance, in conformity with official regulations.

“Probably the leaded fuel with the highest octane index in the world”

Use

- **ELF MOTO 124** is a leaded fuel for 2-stroke engines in race circuits.
- Complies with some regulations, to be checked according to the special regulations of each championship.
- With its exceptional octane index, **ELF MOTO 124** permits racing with extreme compression ratios.
- **ELF MOTO 124** prevents any risk of knocking, regardless of the tuning and conditions.
- Particularly suited to competitions like:
 - Moto-Cross
 - Moto
 - Kart
 - Superkart
 - Speedboat races

Characteristics

		Typical data
OCTANE NUMBER	RON	>124
	MON	>110
DENSITY	kg/l at 15°C	0.720
OXYGEN	% m/m	2.7
VAPOUR PRESSURE	Bar at 37.8°C	0.350
DISTILLATION (°C)	% vol. at 70°C	8
	% vol. at 100°C	70
LEAD	g/litre	1.5

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Properties

Fuel characteristics	→	Technical gains	→	Engine benefits
Lead content for exceptional octane indexes RON > 124 (beyond measurable limits)	→	Exceptional anti-knocking	→	Perfect reliability at prolonged high speed
	→	Prevents any knocking regardless of severity of tuning	→	More power without altering reliability
Strong oxygen content	→	Greater filling capacity through air/fuel mixture cooling	→	Spontaneous power gains (without special tuning) Excellent engine response in transition phase

Recommendation

- **ELF MOTO 124** provides significant gains in power and reliability, with no fine-tuning.
- To get the full benefit of this product, the engine mapping must be optimised (Air/Fuel ratio, ignition sequence).
- **ELF MOTO 124** is outside sports regulations and incompatible with most public driving regulations.
- **ELF MOTO 124** can be mixed with the lubricant **ELF HTX 909** or with **ELF HTX 976**, for even more efficiency.

Storage

To preserve its original properties and comply with the Health and Safety rules pertaining to fuels, **ELF MOTO 124** must be handled and stored away from sunlight and bad weather and properly resealed in its drum after each use, to avoid loss of the lightest particles.

Glossary

RON & MON: The RON & MON characterize the resistance to knocking (see definition) of a fuel used in a spark-ignition engine. The RON is representative of the functioning of an engine running in cold and low speed condition, while the MON is representative of an engine running in warm and high speed condition.

For competition use, the MON is commonly used to describe a fuel's anti-knocking capacity.

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Higher octane levels give the fuel greater capacity to allow the engine to function under severe conditions that raise speeds (high rotation speed, high compression ratio).

OXYGEN CONTENT: Oxygenated compounds naturally contain high levels of octane and generally improve engine filling capacities thanks to the cooling effect on the admitted air flow (see definition). Others also have remarkable combustion speeds.

OLEFINS AND DI-OLEFINS: These unsaturated hydrocarbon compounds (double carbon-carbon bond) do not exist in natural form; they are found in petroleum fractions from cracking facilities.

Thanks to the reactivity of their double bond(s), these molecules have particularly high combustion speeds.