



ELF MOTO 124

“Leaded racing fuel for 2-stroke and 4-stroke engines”



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 and easy settings adjustments.

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

Use

- **ELF MOTO 124** is a leaded competition fuel.
- With its exceptional octane numbers, **ELF MOTO 124** allows 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/liter	1.5



“Leaded racing fuel for 2-stroke and 4-stroke engines ”

Properties

Fuel characteristics	→	Technical gains	→	Engine benefits
Lead content Exceptionally high octane numbers (RON > 124)	→	Exceptional anti-knocking Prevents any knocking regardless of severity of tuning	→	Perfect reliability at prolonged high speed More power without altering reliability
Specific oxygen compounds	→	Greater filling capacity through air/fuel mixture cooling	→	Spontaneous power gains (without special tuning) Excellent engine response in transition phase
Compact distillation curve	→	Easier vaporization for a good homogeneity of the fuel-air mixture	→	Power gain by improving the motor efficiency

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 used in 2 Strokes mixture 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.



ELF MOTO 124

“Leaded racing fuel for 2-stroke and 4-stroke engines”

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. 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.

KNOCKING: Is the result of non controlled fuel combustion in the engine. Sometimes revealed by a characteristic 'pinking' noise, these detonation phenomena often damage the engine. There are two ways to prevent knocking: tuning the ignition timing and/or using a fuel with better anti-knocking characteristics (RON/MON and combustion speed).

CHARGE COOLING: The amount of energy needed to vaporize fuel depends on the latent vaporization heat. This phenomenon leads to cooling the intake air which in turn generates internal supercharging.

