



ELF SPECIAL CROSS

“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.

Use

- **ELF SPECIAL CROSS** is a leaded fuel for 2-stroke engines in circuit racing.
- Complies with certain regulations, to be checked according to the special regulations of each championship.
- **ELF SPECIAL CROSS** has particularly high octane indexes for perfect reliability in racing performance.
- **ELF SPECIAL CROSS** is particularly suited for use in Cross competitions due to its excellent engine response.
- Particularly suited to the following types of competition:
 - Motocross
 - Moto
 - Kart
 - Superkart
 - Speedboat races

Characteristics

		Typical data
OCTANE NUMBER	RON	115
	MON	>100
DENSITY	kg/l at 15°C	0.740
OXYGEN	% m/m	2.2
VAPOUR PRESSURE	Bar at 37.8°C	0.600
DISTILLATION (°C)	% vol. at 70°C	35
	% vol. at 100°C	60
BENZENE	% vol.	<0.05
LEAD	g/litre	0.5



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Properties

Fuel characteristics	→	Technical gains	→	Engine benefits
Lead content giving particularly high octane indexes	→	Excellent anti-knocking	→	Reliability and impeccable performance under severe conditions
Balanced distillation curve		Simplifies preparation of air/fuel mix		Better reaction to gas recovery
Strong oxygen content	→	Better filling	→	Spontaneous power gains (without special tuning)

Recommendation

- **ELF SPECIAL CROSS** 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 SPECIAL CROSS** is outside sports regulations and incompatible with most public driving regulations.
- **ELF SPECIAL CROSS** 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 SPECIAL CROSS** 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.



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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.

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.