



A brand of **TOTAL**

ELF RACE 102

“Unleaded racing fuel for all motorisation types”



Our formulation guarantees you a fuel with an octane number (RON) greater than 102 and with properties that remain stable over time. This constant and optimum search for quality ensures high-level performance.

Uses

- Developed for all types of racing, this fuel meets the economic expectations of service station SP98 unleaded fuel users, while providing the quality and performance of a race fuel.
- This fuel does not conform to official FIM or FIA regulations
- Suitable for the following motorisations:
 - Naturally aspirated and turbo-charged 4-stroke engines
 - 2-stroke engines

Properties

		Typical data	
		ELF RACE 102	SP98 unleaded
OCTANE NUMBERS	RON	>102	98 - 99
	MON	>88	87.3
DENSITY	15°C	0.740 to 0.780	0.720 to 0.775
OXYGEN	% w/w	3.7 max	2.7 max
DISTILLATION (°C)	% vol. at 70 °C	15 - 45	20 - 48
	% vol. at 100 °C	50 - 75	46 - 71
LEAD CONTENT	g/litre	0.005 max	0.005 max
SULPHUR	mg/kg	10 max	10 max
BENZENE	% vol.	1.0 max	1.0 max

Properties

Properties	→	Technical gains	→	Engine-related benefits
Research Octane Number (RON) greater than 102	→	Excellent pinking resistance for perfectly controlled combustion	→	Allows the use of optimised ignition settings
	→	Can be used with original engine mapping (SP98 unleaded fuel)	→	Reliability under severe application conditions (heat/humidity)
Oxygenate compound content max. 3.7% w/w	→	Improved engine filling (compared to SP98 unleaded fuel)	→	Significantly increases engine power
High density	→	Improved fuel energy content	→	Increased engine power at same injection level

Recommendations

- **ELF RACE 102** can be used with the same engine mapping as for SP98 unleaded fuel.
- With suitable adjustments, **ELF RACE 102** provides significant power gains, while maintaining reliability. To get the most from this product, the spark advance should preferably be optimised.

Storage

To maintain its original properties, in accordance with the Fuel Health and Safety regulations, **ELF RACE 102** should be handled and stored in the shade and sheltered from adverse weather conditions and must be perfectly sealed in its drum after each use, in order to avoid losing the lightest fractions.

Glossary

For further information concerning the technical aspects of our technical data sheets, a glossary is available online at our site www.acs.total.com, racing fuels and lubricants section.