



ELF ATMO VINT

"Unleaded racing fuel, high valve protection"



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.

"ELF ATMO VINT was developed to provide maximal reliability to naturally aspirated engines running on high octane leaded racing fuel."

Uses

- **ELF ATMO VINT** unleaded fuel was specially designed to replace **ELF ATMO BOOST** leaded fuel, both for its combustion qualities and valve seat protection properties.
- **ELF ATMO VINT** does not comply with FIA Appendix J regulations.
- **ELF ATMO VINT** balanced formula makes it easy to use (cold starting, reduction of vapor-lock and engine mapping). Its high octane numbers and chemical composition provide it with good combustion properties. Strong anti-valve recession doping maintains high protection levels comparable to those of leaded fuels.
- **ELF ATMO VINT** can be used in circuit, rally and hill climbing, in naturally aspirated engines usually running on leaded fuel.

Characteristics

		Standard data
OCTANE NUMBERS	RON	104.8
	MON	91.7
DENSITY	kg/l at 15°C	0.775
OXYGEN	% m/m	1.60
AIR-FUEL RATIO		13.90
VAPOUR PRESSURE	Bar at 37.8°C	0.480
DISTILLATION	FBP (°C)	120
	% vol. at 70°C	16
	% vol. at 100°C	42
SULPHUR	mg/kg	<10
BENZENE	% vol.	<0.1
LEAD CONTENT	g/litre	<0.005



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Properties

Characteristics	→	Technical advantages	→	Engine benefits
High RON and MON	→	Excellent resistance to knocking , ensuring controlled combustion	→	<p>Exceptional reliability under severe conditions (compression and heat / humidity rates)</p> <p>Allows using optimised ignition timing for greater power</p>
Good ASVR additive	→	Protection of valve seats	→	Engine reliability
High olefins content	→	High combustion speed for higher efficiency	→	<p>Control of knocking at very high engine speeds.</p> <p>Good engine response in transient phase.</p>
Very low benzene and sulphur contents. No lead.	→	Harmless	→	<p>No special precautions for use</p> <p>ELF ATMO VINT respects both health and the environment.</p>



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Recommendations

- **ELF ATMO VINT** is developed for naturally aspirated engines usually running on leaded fuel.
- **ELF ATMO VINT** can not be used to replace leaded fuels with octane numbers significantly higher than 106 (RON) and 93 (MON), such as **ELF MOTO 124**.
- Engine mapping must be optimised in order to obtain full benefit from this fuel (Air/Fuel ratio, ignition sequence, compression rates).

Storage

To preserve its original properties and comply with the Health and Safety rules pertaining to fuels, **ELF ATMO VINT** 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

For any further information relative to the technical aspects written in our Data Sheets, a glossary is on line on our website www.acs.total.com, racing fuels and lubricants section.

