



ELF AVSP 11 VS

"Unleaded competition fuel for 4 and 2-stroke naturally aspirated 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, in conformity with official racing regulations.

Uses

- The properties of **ELF AVSP 11 VS** unleaded fuel are the following:
 - Two additives: valve seat protection and friction modifier,
 - High octane numbers.
- **ELF AVSP 11 VS** is particularly adapted for the following uses:
 - Acceleration
 - Hill climb races
 - Rallies & Rallycross
 - Vintage motorbikes and cars.

Characteristics

		Typical data
OCTANE NUMBERS	RON	107
	MON	96
DENSITY	kg/l at 15°C	0.753
OXYGEN	% m/m	2.6
VAPOUR PRESSURE	Bar at 37.8°C	0.28
SULPHUR	mg/kg	<10
LEAD CONTENT	g/litre	<0.005



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Properties				
Characteristics	→	Technical advantages	→	Engine benefits
High RON and MON	→	Excellent resistance to knocking to ensure controlled combustion	→	<p>Exceptional reliability under severe conditions (compression and heat / humidity rates)</p> <p>Allows using optimised ignition timing for greater power</p>
Valve additive	→	Protection of valves seats	→	Reliability
Friction modifier	→	Reduction of internal friction	→	Higher power
High oxygen content	→	<p>Natural booster effect</p> <p>High latent heat of evaporation helps cooling mix before combustion</p> <p>Greater filling capacity through air/fuel mixture cooling</p>	→	<p>Spontaneous power gains (without special tuning) over complete engine speed range</p> <p>Power gains after optimisation of ignition advance</p> <p>Excellent engine response in transient phase</p>
Very low benzene and sulphur content	→	Harmless	→	<p>No special precautions for use</p> <p>ELF AVSP 11 VS respects both the environment and health</p>



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Recommendations

- Caution, this fuel contains MTBE (Methyl Tertio Butyl Ether), a compound forbidden by certain local and national regulations.
- For 2-stroke use, **ELF AVSP 11 VS** can be used mixed with **ELF HTX 909** lubricant, or for even better efficiency, with **ELF HTX 976** (recommended rate: 4% lubricant mixed with the fuel).
- **ELF AVSP 11 VS** does not comply with FIM or FIA regulations.

Conservation

To preserve its original properties and comply with the Health and Safety rules pertaining to fuels, **ELF AVSP 11 VS** 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.