

## TECHNICAL DATA SHEET

« Our formula use pure bases to guarantee naturally stable, long-lasting properties, consistent from one production batch to another. This search for constant and optimum quality ensures you obtain first class performance, in conformity with racing requirements. »

### USES

**ELF PERFO 105** has the **highest-octane number** available in the ELF unleaded racing fuel range.

By selecting compounds with outstanding resistance to knocking, **ELF PERFO 105** allows engines to operate in ranges hitherto inaccessible to other unleaded fuels. Supercharging pressures and compression rates can be extended to the engine's mechanical limits.

Particularly suited for heavy loaded turbocharged 4-stroke engines seeking the best performance out of any fuel regulation, **ELF PERFO 105** can be used in many applications: Circuit, Rally, Drag, Hill climb, Drift...

**ELF PERFO 105 is not compliant with official FIA or FIM regulations.**

### PROPERTIES

		Typical data
<b>Octane number</b>	RON	111
	AKI (R+M)/2	104.5
<b>Specific Gravity at 59°F</b>		0.742
<b>Vapour Pressure at 37,8°C</b>	Psi	7.0
<b>Distillation</b>	% v/v, at 158°F	41
	% v/v, at 212°F	100
<b>Air Fuel Ratio at stœchiometry</b>		12,1
<b>Oxygen content</b>	% m/m	16,5
<b>Sulphur content</b>	mg/kg	< 10,0
<b>Lead content</b>	g/L	< 0,005
<b>Benzene content</b>	% v/v	< 1,0
<b>Color</b>	Visual aspect	Limpid colourless



# ELF PERFO 105

## CHARACTERISTICS



RACING FUELS & LUBRICANTS

CHARACTERISTICS	→	TECHNICAL ADVANTAGES	→	ENGINE BENEFITS
Outstanding <b>Octane</b> for unleaded fuel	→	<p>Excellent resistance of knocking for controlled combustion</p> <p>Compression rates and supercharging pressure can be increased to the mechanical limits of the engine</p>	→	<p><b>Maximum torque and power for high torque and extremely loaded engines</b></p>
Unusually <b>high oxygen content</b>	→	<p>Natural <b>supercharging</b> effect</p> <p>High latent vaporisation heat that facilitates mixture <b>cooling</b> before combustion</p> <p>Increased <b>volume filling</b> by charge cooling</p>	→	<p><b>Spontaneous power gains over the whole revs</b></p> <p><b>Increased power by optimisation before ignition</b></p> <p><b>Excellent engine response in transient phase</b></p>

## RECOMMENDATIONS

Engine mapping must be optimised (Air/Fuel ratio, ignition sequence...) to obtain full benefit from this product.

If oxygenated compounds are not allowed, we recommend to use **ELF PERFO 100**.

**Conservation** : to maintain its original properties, in accordance with the Fuel Health and Safety regulations, **ELF PERFO 105** 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.

## WARNING

California's Proposition 65 - <https://www.p65warnings.ca.gov/>

