



FUEL SPECIFICATIONS SHEET

ELF ATMO RALLYE

4-STROKE ATMOSPHERIC ENGINES UNLEADED

		Typical figures	FIA Regulation
DENSITY	Kg/l at 15°C	0.748	0.720 to 0.785
REID VAPOUR PRESSURE	bar at 37,8°C	0.570	maxi 0.900
RESEARCH OCTANE NUMBER	RON	100.0	mini 95/maxi 102
MOTOR OCTANE NUMBER	MON	85.7	mini 85/maxi 90
DISTILLATION (°C)	30 %	64	
	50 %	79	
	90 %	150	
	FBP	169	maxi 225°C
	% vol at 70°C	42	10 to 47 %
	% vol at 100°C	65	30 to 70 %
OXYGEN %	% Mass	3.4	3.7 % of the weight
LEAD CONTENT	g/litre	< 0.005	0.013 g/l maxi

APPLICATIONS

- Complies with the FIA regulation.
- Especially blended for 4-stroke racing engines running at high rpm.
- Thanks to a selection of the most efficient petroleum streams having high combustion speed and improving volumetric efficiency, this fuel offers the best engine performances which can be achieved for natural aspirated engines with respect to the actual regulation.
- Typical application : Rally cars

RECOMMENDATIONS

- Best results can be achieved for equivalent air/fuel ratios in the 1.12 to 1.18 range : with reference to pump fuels, because of the **oxygenate compounds** used in the blending formula, generally speaking **it is necessary to increase fuel ratio**. Ignition setting must also be tuned in order to reach optimum performances.
- In order to maintain the original properties, and according to Health and Safety regulations of commercial fuels, this gasoline shall be handled and stored in a cool place and always maintained in tightly shut drums.
- The hydrocarbons selected to blend this fuel have in a certain extend, a propensity to knock. Consequently, this fuel is basically not suitable for 2-stroke engines.