

# P1 RACING FUELS



## P1 WRC (P-RG-007-22)

### TECHNICAL CHARACTERISTICS

### FIA WRC 2022-24 – APPENDIX IV

PARAMETER	UNIT	TYPICAL DATA	MIN	MAX	TEST METHOD
RON	-	<b>100.5-101.1</b>	95.0 <sup>(1)</sup>	102.0 <sup>(1)</sup>	ISO 5164
MON	-	<b>88.3-88.9</b>	85.0 <sup>(1)</sup>	90.0 <sup>(1)</sup>	ISO 5163
DENSITY (AT 15 °C)	kg/m <sup>3</sup>	<b>759-762</b>	720	785	ISO 12185
OXYGEN	% m/m	<b>7.2-7.4</b>	-	7.5	EN ISO 22854
NITROGEN	mg/kg	<b>10-30</b>	-	2000 <sup>(2)</sup>	ASTM D4629
SULFUR	mg/kg	<b>&lt;3.0</b>	-	10.0	EN ISO 20846
LEAD	mg/l	<b>&lt;1</b>	-	5.0	EN 237
MANGANESE	mg/l	<b>&lt;1.0</b>	-	2.0	ASTM D3831
BENZENE	% V/V	<b>&lt;0.5</b>	-	1.0	ISO 22854
AROMATICS	% V/V	<b>23.0-28.0</b>	report		ISO 22854
TOTAL STYREN AND ALKYL DERIVATIVES	% m/m	<b>&lt;1.0</b>	-	1.0	GC-MS
OLEFINS	% V/V	<b>1.0-4.0</b>	report		ISO 22854
TOTAL DI-OLEFINS	% m/m	<b>&lt;1.0</b>	-	1.0	GC-MS
OXIDATION STABILITY	minutes	<b>&gt;360</b>	360	-	ISO 7536
DVPE	kPa	<b>60-64</b>	50 <sup>(3)</sup>	80	EN 13016-1
NET HEATING VALUE	MJ/kg	<b>39.35-39.60</b>	-	-	ASTM D3338
A/F RATIO	kg Air/kg Fuel	<b>13.41-13.45</b>	-	-	calculation

### DISTILLATION CHARACTERISTICS

AT E70 °C	% V/V	<b>44.0-48.0</b>	20.0	52.0	
AT E100 °C	% V/V	<b>63.0-67.0</b>	46.0	72.0	
AT E150 °C	% V/V	<b>78.0-82.0</b>	75.0	-	ISO 3405
FINAL BOILING POINT	°C	<b>&lt;210</b>	-	210	
RESIDUE	% V/V	<b>&lt;2.0</b>	-	2.0	

(1) A correction factor of 0.2 for MON and RON shall be subtracted for the calculation of the final result in accordance with EN 228: 2012

(2) Octane boosting nitro compounds are not permitted

(3) The minimum DVPE must remain above 50kPa to cope with winter competitions

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To achieve optimum performance and utilize the unique features of this product it is recommended to optimize the Air/Fuel ratio and ignition advance. It is not recommended to mix this fuel with any other additives or other fuel blends. The fuel must be sorted according to local legislation and in a dark cool place to maintain its properties.

**PLEASE READ THE SAFETY DATA SHEET (MSDS) FOR HEALTH AND SAFETY INSTRUCTIONS BEFORE USING.**

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