

# P1 PERFORMANCE FUELS



## P-TG-110-03

Advanced gasoline based on 100% renewable components

### TECHNICAL CHARACTERISTICS

### SPECIFICATION - EN 228

PARAMETER	UNIT	TYPICAL VALUE	MIN	MAX	TEST METHOD
RON	-	<b>96.0-98.0</b>	95.0	-	EN ISO 5164
MON	-	<b>85.0-87.0</b>	85.0	-	EN ISO 5163
DENSITY (AT 15 °C)	kg/m <sup>3</sup>	<b>760.0-763.0</b>	720.0	775.0	EN ISO 12185
DVPE	kPa	<b>48.0-52.0</b>	45.0	90.0	EN 13016-1
SULFUR	mg/kg	<b>&lt;5</b>	-	10	EN ISO 20846
LEAD	mg/l	<b>&lt;1</b>	-	5	EN 237
MANGANESE	mg/l	<b>&lt;0.20</b>	-	2.0	EN 16135
BENZENE	% V/V	<b>0.10-0.20</b>	-	1.00	EN ISO 22854
OLEFINS	% V/V	<b>&lt;4.0</b>	-	18.0	EN ISO 22854
AROMATICS	% V/V	<b>29.0-33.0</b>	-	35.0	EN ISO 22854
METHANOL	% V/V	<b>&lt;0.3</b>	-	3.0	EN ISO 22854
ETHANOL	% V/V	<b>&lt;0.3</b>	-	10.0	EN ISO 22854
ISO-PROPYLALCOHOL	% V/V	<b>&lt;0.3</b>	-	12.0	EN ISO 22854
ISO-BUTYLALCOHOL	% V/V	<b>&lt;0.3</b>	-	15.0	EN ISO 22854
TERT-BUTYLALCOHOL	% V/V	<b>&lt;0.3</b>	-	15.0	EN ISO 22854
ETHERS (5 OR MORE C ATOMS)	% V/V	<b>19.0-21.0</b>	-	22.0	EN ISO 22854
OTHER OXYGENATES	% V/V	<b>&lt;0.3</b>	-	15.0	EN ISO 22854
OXYGEN CONTENT	% m/m	<b>3.5-3.7</b>	-	3.7	EN ISO 22854
INDUCTION PERIOD	minutes	<b>&gt;600</b>	360	-	EN ISO 7536
COPPER CORROSION (3H AT 50 °C)	-	<b>1a</b>	-	CLASS 1	EN ISO 2160
EXISTENT GUM - WASHED	mg/100ml	<b>&lt;2</b>	-	5	EN ISO 6246
APPEARANCE	-	<b>C&amp;B</b>	Clear&Bright		Visual
NET HEATING VALUE	MJ/kg	<b>41.0-41.4</b>	-		DIN 51900
A/F RATIO	kg Air/kg Fuel	<b>13.96-14.06</b>	-		calculation
CARBON CONTENT	% m/m	<b>82.70-82.85</b>	-		EN ISO 22854
HYDROGEN CONTENT	% m/m	<b>13.52-13.65</b>	-		EN ISO 22854
<b>RENEWABLE COMPONENTS</b>	<b>% V/V</b>	<b>100</b>	-		<b>ASTM D6866</b>

### DISTILLATION CHARACTERISTICS

TEMPERATURE	UNIT	TYPICAL VALUE	MIN	MAX	TEST METHOD
E70 °C	% V/V	<b>31.5-34.5</b>	22.0	50.0	EN ISO 3405
E100 °C	% V/V	<b>53.0-56.0</b>	46.0	72.0	
E150 °C	% V/V	<b>75.0-76.0</b>	75.0	-	
FINAL BOILING POINT	°C	<b>&lt;210</b>	-	210	
RESIDUE	% V/V	<b>&lt;2.0</b>	-	2.0	

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

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CONTACT P1 PERFORMANCE FUELS FOR MORE INFORMATION

+49 1722772595

info@p1fuels.com

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