

FossilFree100 WRC (P-RG-007-22)

TECHNICAL CHARACTERISTICS

FIA WRC 2022-24 – APPENDIX IV

PARAMETER	UNIT	TYPICAL DATA	MIN	MAX	TEST METHOD
RON	-	100.5-101.5	95.0 ⁽¹⁾	102.0 ⁽¹⁾	ISO 5164
MON	-	88.5-89.5	85.0 ⁽¹⁾	90.0 ⁽¹⁾	ISO 5163
DENSITY (AT 15 °C)	kg/m ³	757-762	720	785	ISO 12185
OXYGEN	% m/m	7.2-7.4	-	7.5	EN ISO 22854
NITROGEN	mg/kg	10-30	-	500 ⁽²⁾	ASTM D4629
SULFUR	mg/kg	<3.0	-	10.0	EN ISO 20846
LEAD	mg/l	<1	-	5.0	EN 237
MANGANESE	mg/l	<1.0	-	2.0	ASTM D3831
BENZENE	% V/V	<0.5	-	1.0	ISO 22854
AROMATICS	% V/V	23.0-27.0	report		ISO 22854
TOTAL STYREN AND ALKYL DERIVATIVES	% m/m	<1.0	-	1.0	GC-MS
OLEFINS	% V/V	1.0-4.0	report		ISO 22854
TOTAL DI-OLEFINS	% m/m	<1.0	-	1.0	GC-MS
METHANOL	% V/V	2.0-3.0	-	3.0	ISO 22854
OXIDATION STABILITY	minutes	>360	360	-	ISO 7536
DVPE	kPa	62-66	50 ⁽³⁾	80	EN 13016-1
NET HEATING VALUE	MJ/kg	39.3-39.6	-	-	ASTM D3338
A/F RATIO	kg Air/kg Fuel	13.41-13.45	-	-	calculation
FOSSIL-FREE COMPONENTS	% V/V	100	-	-	ASTM D6866

DISTILLATION CHARACTERISTICS

AT E70 °C	% V/V	44.0-48.0	20.0	52.0	
AT E100 °C	% V/V	63.0-67.0	46.0	72.0	
AT E150 °C	% V/V	78.0-82.0	75.0	-	ISO 3405
FINAL BOILING POINT	°C	<210	-	210	
RESIDUE	% V/V	<2.0	-	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 maximum DVPE may rise to 100kPa for winter competitions

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

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