

Eco100 RS24+ (P-RG-048-02)

TECHNICAL CHARACTERISTICS

FIA – APPENDIX J – ARTICLE 252 9.3.2

PARAMETER	UNIT	TYPICAL DATA	MIN	MAX	TEST METHOD
RON	-	100.0-102.0	95.0 ⁽¹⁾	102.0 ⁽¹⁾	EN ISO 5164
MON	-	89.0-90.0	85.0 ⁽¹⁾	90.0 ⁽¹⁾	EN ISO 5163
DENSITY (AT 15 °C)	kg/m ³	747-753	720	785	EN ISO 12185
OXYGEN	% m/m	7.3-7.5	-	7.5	EN ISO 22854
NITROGEN	mg/kg	10-20	-	500 ⁽²⁾	ASTM D4629
SULFUR	mg/kg	<3.0	-	10.0	EN ISO 20846
LEAD	mg/l	<0.2	-	5.0	EN 237
MANGANESE	mg/l	<0.2	-	2.0	ASTM D3831
BENZENE	% V/V	<0.3	-	1.0	EN ISO 22854
AROMATICS	% V/V	18.0-24.0	report		EN ISO 22854
TOTAL STYREN AND ALKYL DERIVATIVES	% m/m	<1.0	-	1.0	GC-MS
OLEFINS	% V/V	1.0-4.0	report		EN ISO 22854
TOTAL DI-OLEFINS	% m/m	<1.0	-	1.0	GC-MS
METHANOL	% V/V	<1.0	-	3.0	EN ISO 22854
ETHANOL	% V/V	<1.0	-	-	EN ISO 22854
OXIDATION STABILITY	minutes	>360	360	-	EN ISO 7536
DVPE	kPa	51-56	-	80 ⁽³⁾	EN 13016-1
CARBON	% m/m	78.8-79.2	-	-	EN ISO 22854
HYDROGEN	% m/m	13.4-13.8	-	-	EN ISO 22854
NET HEATING VALUE	MJ/kg	40.5-41.0	-	-	ASTM D3338
A/F RATIO	kg Air/kg Fuel	13.38-13.44	-	-	calculation
AS ⁽⁴⁾ COMPONENTS	% m/m	100	-	-	mass balance
BIO COMPONENTS	% m/m	64.7	-	-	ASTM D6866

DISTILLATION CHARACTERISTICS

AT E70 °C	% V/V	47.0-52.0	20.0	52.0	EN ISO 3405
AT E100 °C	% V/V	67.0-72.0	46.0	72.0	
AT E120 °C	% V/V	73.0-78.0	73.0	-	
AT E135 °C	% V/V	77.0-82.0	77.0	-	
AT E150 °C	% V/V	83.0-88.0	83.0	-	
FINAL BOILING POINT	°C	180-185	-	210	
RESIDUE	% V/V	<1.0	-	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

(4) Advanced sustainable

Date of compilation/revision: 2024-12-08

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

Copyright © 2024 P1 Performance Fuels GmbH. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical including by photography, recording or information storage and retrieval system, without permission in writing from P1 Performance Fuels GmbH or any member company of the group.