



**ANNEXE VI – BIJLAGE VI**  
**Kroon Oil Belgian Rally Championship 2025**

Le fournisseur d'essence agréé par le RACB Sport pour le Kroon Oil Belgian Rally Championship 2025 est :

**ETS Racing Fuels**

Prendre contact via le distributeur Belge : <https://www.cbeventsourcing.com>

De goedgekeurde brandstof leverancier door RACB Sport voor het Kroon Oil Belgian Rally Championship 2025 is :

**ETS Racing Fuels**

Neem contact op met de Belgische verdeler: <https://www.cbeventsourcing.com>

The appointed fuel supplier, certified by RACB Sport, for the Kroon Oil Belgian Rally Championship 2025 is:

**ETS Racing Fuels**

Contact the Belgian distributor via their website: <https://www.cbeventsourcing.com>

**Fuel types:**

**FUEL TYPE 1** : ETS Extraboost (= **Carless Hiperflo Turbo Ultimate Dev2**) :

**FUEL TYPE 2** : Gutts E85R

**FUEL TYPE 3** : 98 octane fuel sold at the commercial petrol station designated by the rally organizer.

**Appendixes: Products Specifications for the different fuel types**

# ExtraBlaze

EXTRABLAZE range includes fuels designed to match consistency & performances with price being a major factor in the fuel development. This range of fuels include blends using some consistent petroleum feedstocks (non-pure components) but also blends based only pure components (purity > 98 %) in order to guaranty consistency of physical parameters.

Get the most of your engine performance & reliability: choose ETS Racing Fuels !

---

## EXTRABOOST

---

### APPLICATIONS

- Unleaded Racing Fuel
- Unleaded Racing Fuel especially blended for 4 strokes engines.
- High octane fuel especially blended for Gasoline Direct Injection fuels
- Complies with the FIA Appendix J- Art.252 Paragraph 9.1
- Thanks to a selection of the most efficient pure molecules and additives, this fuel offers the best consistency to engine performances with respect to the regulation.
- Due to its high combustion speed and high combustion energy, **EXTRABOOST** fuel develops performances especially during transient phases giving better acceleration.

### RECOMMENDATION

- Air/fuel ratio, ignition advance must absolutely be checked and re-tuned to reach optimum performances. Ignition and injection mapping or carburetor jetting are strongly recommended to be adapted.
- 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, well ventilated, away from any source of ignition or moisture and always maintained in tightly shut drums. In addition, refer to your local regulations.

## SPECIFICATION

FIA Annex J 2022

Characteristics		Typical Results	Min	Max	Test Methods
Appearance		C&B	-	-	SOP 520
RON		101,5	95	102	EN ISO 5164
MON		86	85	90	EN ISO 5163
Density @ 15°C	kg/m <sup>3</sup>	756	720	785	EN ISO 12185
Oxygen content	% m/m	3,2	-	3,7	EN ISO 22854
Nitrogen content	mg/kg	<100	-	2000	ASTM D 4629
Sulphur content	mg/kg	<10	-	10	EN ISO 20846
Lead content	mg/l	<1	-	5	ICP OES
Manganese content	% v/v	<0,1	-	2	ICP OES
Benzene content	% v/v	<0,1	-	1	EN ISO 22854
Olefins content	% v/v	9	-	18	EN ISO 22854
Aromatics content	% v/v	34,5	-	35	EN ISO 22854
Total di- olefins content	% m/m	<1	-	1	GC-MS
Total styrene and alkyl derivatives	% m/m	<1	-	1	GC-MS
Oxidation Stability	minutes	>360	360	-	ASTM D 525
DVPE @37,8°C	kPa	63	-	80	EN 13016-1
Distillation Characteristics					
E70°C	% v/v	49	20	52	ISO 3405
E100°C	% v/v	65	46	72	ISO 3405
E150°C	% v/v	100	75	-	ISO 3405
Final Boiling Point	°C	146	-	210	ISO 3405
Residue	% v/v	0,5	-	2	ISO 3405

## FOLLOW US



ETS Racing Fuels



ETSRacingFuels



ets\_racing\_fuels

[www.ETSRacingFuels.com](http://www.ETSRacingFuels.com)[www.MyETStoRace.com](http://www.MyETStoRace.com)

## CONTACT US

Global Product Manager  
Yann Labia  
+33 6 80 45 73 36  
[ylabia@h-c-s-group.com](mailto:ylabia@h-c-s-group.com)

4 wheels – Sales Manager  
Christophe Malivert  
+33 6 88 11 6195  
[cmalivert@h-c-s-group.com](mailto:cmalivert@h-c-s-group.com)

2 wheels – Sales Manager  
Eduardo Ferrarini  
+39 340 791 8353  
[eferrarini@h-c-s-group.com](mailto:eferrarini@h-c-s-group.com)

TDS version1

**Haltermann Carless France S.A.S.**

Zone d'Activités de la Baudrière n°1 · 27520 Bourgtheroulde · France  
Phone: +33 2 32 13 14 50 · Fax: +33 2 32 13 14 51  
[www.ets-racing.com](http://www.ets-racing.com) · [motorsport@h-c-s-group.com](mailto:motorsport@h-c-s-group.com)

**Formula Win**

**Certificate 000000000000**

Date Printed: 13/01/2025  
 Customer PO:  
 Delivery Note:  
 Order No.:  
 Customer No.:

Material No.: 2010476  
 Material: Carcal RF-01-08 E85  
 Bulk  
 Batch: 0000064740  
 Dlv. Qty: 0.0  
 Ship from:

Page: 1 / 2

Feature	Units	Results	Limits		Method
			Minimum	Maximum	
Density 15°C	kg/m <sup>3</sup>	782.8	-	-	ASTM D4052
Clear and Bright	-	Pass	-	-	VISUAL
R.O.N.		106.0	95.0	-	ASTM D2699
M.O.N.		89.2	85.0	-	ASTM D2700
I.B.Pt.	°C	52.7	-	-	ASTM D86
10% v/v Evaporated at	°C	73.3	-	-	ASTM D86
50% v/v Evaporated at	°C	77.6	-	-	ASTM D86
90% v/v Evaporated at	°C	78.3	-	-	ASTM D86
F.B.Pt.	°C	149.7	-	-	ASTM D86
Residue	%(V/V)	0.5	-	-	ASTM D86
Vapour Pressure (DVPE) 37.8°C	kPa	46.3	40.0	60.0	EN 13016-1
Gasoline content	%(V/V)	15.8	-	-	CALCULATION
Sulphur Content	mg/kg	< 3.0	-	10.0	IP 490
Phosphorous Content	mg/l	< 0.2	-	0.3	ASTM D3231
Methanol	%(V/V)	< 0.2	-	0.5	EN 13132
Ethanol	%(V/V)	84.2	83.0	85.0	EN 13132
Higher Alcohols (C3 - C8)	%(V/V)	< 0.2	-	2.0	EN 13132
Inorganic Chloride Content	mg/l	< 0.1	-	1.0	ISO 6227
Water Content	%(m/m)	0.035	-	0.300	IP 539
pHe		7.9	6.5	9.0	ASTM D6423
		pH			
Acidity (as Acetic Acid)	%(m/m)	0.0019	-	0.0050	ASTM D1613
Oxidation Stability	min.	> 360	360	-	ASTM D525
Gum, - washed	mg	< 0.5	-	5.0	ASTM D381
		per 100ml			
Copper Corrosion, 3hrs at 50°C	-	1A	-	-	ASTM D130
Oxygen Content	%(m/m)	29.69	-	-	EN 13132
Carbon Content	%(m/m)	57.55	-	-	ASTM D5291
Hydrogen Content	%(m/m)	12.76	-	-	ASTM D5291
C/H Mass Ratio		4.51	-	-	CALCULATION
C/O Mass Ratio		1.9384	-	-	CALCULATION
Atomic H/C Ratio		2.6420	-	-	CALCULATION
Atomic O/C Ratio		0.3873	-	-	CALCULATION

**Certificate 000000000000**

Date Printed: 13/01/2025  
Customer PO:  
Delivery Note:  
Order No.:  
Customer No.:

Page: 2 / 2

---

Feature	Units	Results	Limits		Method
			Minimum	Maximum	
Gross Heat of Combustion	MJ/kg	32.20	-	-	IP 12
Net Heat of Combustion	MJ/kg	29.50	-	-	IP 12
Net Heat of Combustion	Btu/lb	12680	-	-	CALCULATION

---

COA Additional Information

---

The certificate is electronically generated and valid without signature.

For inquiries please contact Customer Service or local Sales

## Specification

Date Printed: 10.01.2025

Material No.: 2018647  
Material: RON 98+  
194 L Steel Drum (1A1)

Spec. Version: 18.12.2024 UK

Feature	Units	Limits		Method
		Minimum	Maximum	
Density 15°C Clear and Bright	kg/m <sup>3</sup>	720.0	775.0	ASTM D4052 VISUAL
R.O.N.		98.0	-	ASTM D2699
M.O.N.		86.0	-	ASTM D2700
I.B.Pt.	°C	-	-	ASTM D86
% Evaporated at 70°C, E70	%(V/V)	24.0	52.0	ASTM D86
% Evaporated at 100°C, E100	%(V/V)	46.0	72.0	ASTM D86
% Evaporated at 150°C, E150	%(V/V)	75.0	-	ASTM D86
F.B.Pt.	°C	-	210.0	ASTM D86
Residue	%(V/V)	-	2.0	ASTM D86
Vapour Lock Index [10xVP+7xE70°C]		-	1264	CALCULATION
Vapour Pressure (DVPE) 37.8°C	kPa	45.0	100.0	EN 13016-1
Aromatics by FIA Corrected for Oxygenates	%(V/V)	-	35.0	ASTM D1319
Olefins by FIA Corrected for Oxygenates	%(V/V)	-	18.0	ASTM D1319
Benzene content	%(V/V)	-	1.0	EN 238
Sulphur Content	mg/kg	-	10.0	IP 490
Lead Content	mg/l	-	5.0	EN 237
Manganese Content	mg/l	-	2.00	ASTM D3831
Oxidation Stability	min	360	-	ASTM D525
Gum, - washed per 100ml	mg	-	5.0	ASTM D381

**Haltermann Carless  
Deutschland GmbH**  
Schlengendeich 17  
21107 Hamburg  
Deutschland  
Phone: + 49 40 33318-0  
de@h-c-s-group.com

**Haltermann Carless  
UK Ltd.**  
Cedar Court  
Guildford Road  
Leatherhead · Surrey KT22 9RX  
United Kingdom  
Phone: + 44 1372 360000  
uk@h-c-s-group.com

**Haltermann Carless  
France S.A.S**  
Zone d'Activités de la  
Baudrière n°1  
27520 Bourgheroulde  
France  
Phone: +33 2 32 13 14 50  
france@h-c-s-group.com

**Haltermann Carless  
US, Inc.**  
901 Wilshire Drive  
Suite 570  
Troy, MI 48084  
United States  
Phone: +1 248 422 6548  
us@h-c-s-group.com

This specification has been generated from our business system and lists those properties that our company evaluates in conducting batch selection decisions. This specification may contain typical properties and their typically expected values. This specification may not cover your entire specification or your specific requirements. The information contained in this specification is believed to be accurate and current as of the date of publication. It is the sole responsibility of the customer to determine whether the product is appropriate and suitable for the customer's specific use. The HCS Group and its affiliates and subsidiaries make no warranties, express or implied regarding the product or any information contained herein. The applicable Safety Data Sheet should be viewed before handling any HCS Group product. The HCS Group and its affiliates and subsidiaries disclaim any liability against infringement of any patent by reason of the customer's use of any HCS Group products in combination with other materials or any process.

Spec. Version: 18.12.2024 UK  
 Material No.: 2018647  
 Material: RON 98+  
 194 L Steel Drum (1A1)

Feature	Units	Limits		Method
		Minimum	Maximum	
Copper Corrosion, 3hrs at 50°C	Class 1A or 1B			ASTM D130
Methanol	%(V/V)	-	3.0	EN 13132
Ethanol	%(V/V)	-	10.0	EN 13132
Isopropyl Alcohol	%(V/V)	-	12.0	EN 13132
Isobutyl Alcohol	%(V/V)	-	15.0	EN 13132
Tertbutyl Alcohol	%(V/V)	-	15.0	EN 13132
Ethers (C5 and higher)	%(V/V)	-	22.0	EN 13132
Other oxygenates	%(V/V)	-	15.0	EN 13132
Oxygen Content	%(m/m)	-	3.70	EN 13132
Carbon Content	%(m/m)	-	-	ASTM D5291
Hydrogen Content	%(m/m)	-	-	ASTM D5291
C/H Mass Ratio		-	-	CALCULATION
Atomic H/C Ratio		-	-	CALCULATION
Atomic O/C Ratio		-	-	CALCULATION
Stoichiometric Air/Fuel Ratio		-	-	SAE J1829
Gross Heat of Combustion	MJ/kg	-	-	IP 12
Net Heat of Combustion	MJ/kg	-	-	IP 12

For inquiries please contact Customer Service or local Sales

**Haltermann Carless  
Deutschland GmbH**  
 Schlangendeich 17  
 21107 Hamburg  
 Deutschland  
 Phone: + 49 40 33318-0  
 de@h-c-s-group.com

**Haltermann Carless  
UK Ltd.**  
 Cedar Court  
 Guildford Road  
 Leatherhead · Surrey KT22 9RX  
 United Kingdom  
 Phone: + 44 1372 360000  
 uk@h-c-s-group.com

**Haltermann Carless  
France S.A.S**  
 Zone d'Activités de la  
 Baudrière n°1  
 27520 Bourgtheroulde  
 France  
 Phone: +33 2 32 13 14 50  
 france@h-c-s-group.com

**Haltermann Carless  
US, Inc.**  
 901 Wilshire Drive  
 Suite 570  
 Troy, MI 48084  
 United States  
 Phone: +1 248 422 6548  
 us@h-c-s-group.com

This specification has been generated from our business system and lists those properties that our company evaluates in conducting batch selection decisions. This specification may contain typical properties and their typically expected values. This specification may not cover your entire specification or your specific requirements. The information contained in this specification is believed to be accurate and current as of the date of publication. It is the sole responsibility of the customer to determine whether the product is appropriate and suitable for the customers specific use. The HCS Group and its affiliates and subsidiaries make no warranties, express or implied regarding the product or any information contained herein. The applicable Safety Data Sheet should be viewed before handling any HCS Group product. The HCS Group and its affiliates and subsidiaries disclaim any liability against infringement of any patent by reason of the customer's use of any HCS Group products in combination with other materials or any process.