



**ANNEXE VI – BIJLAGE VI**  
**Kroon Oil Belgian Rally Championship 2024**

Le fournisseur d'essence agréé par le RACB Sport pour le Kroon Oil Belgian Rally Championship 2024 est :

**GUTTS b.v.**

Prendre contact sur le site Gutts : <https://gutts.nl/product-categorie/refuel/>

De goedgekeurde brandstof leverancier door RACB Sport voor het Kroon Oil Belgian Rally Championship 2024 is :

**GUTTS b.v.**

Neem contact op met de website van Gutts : <https://gutts.nl/product-categorie/refuel/>

The appointed fuel supplier, certified by RACB Sport, for the Kroon Oil Belgian Rally Championship 2024 is:

**GUTTS b.v.**

Contact them via their website: <https://gutts.nl/product-categorie/refuel/>

**Fuel types:**

**FUEL TYPE 1 :** Petrochem 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 fuel types 1 & 2**

RACING FUELS BELGIUM BVBA  
ROOSBEEKSTRAAT 53  
3800 SINT-TRUIDEN  
BELGIUM

## Certificate 10000242171

Date Printed: 11/08/2022  
Customer PO: 01.08.22  
Delivery Note: 80216253 000020  
Order No.: 66202789 000020  
Customer No.: 1762530

GMID: 2016380 Version: 01.04.2022 UK  
Material: HIPERFLO TURBO ULTIMATE DEV2  
54 Litre Keg  
Cust. Mat.:  
Batch: 0000049188  
Dlvy. Qty: 3.888,0 L15  
Container ID:  
Ship from: De Rijke Veembedrijf Spijkenisse, Netherlands

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Feature	Units	Results	Limits		Method
			Minimum	Maximum	
Density 15°C	kg/m <sup>3</sup>	769,8	760,0	775,0	ASTM D4052
R.O.N (corrected)		101,8	95,0	102,0	EN ISO 5164
M.O.N. (corrected)		86,0	85,0	90,0	EN ISO 5163
I.B.Pt.	°C	39,7			ASTM D86
10% v/v Evaporated at	°C	50,3			ASTM D86
50% v/v Evaporated at	°C	75,7			ASTM D86
90% v/v Evaporated at	°C	126,4			ASTM D86
% Evaporated at 70°C, E70	%(V/V)	45,3	20,0	52,0	ASTM D86
% Evaporated at 100°C, E100	%(V/V)	62,7	46,0	72,0	ASTM D86
% Evaporated at 150°C, E150	%(V/V)	> 98,7	75,0	-	ASTM D86
% Evaporated at 180°C, E180	%(V/V)	> 98,7			ASTM D86
F.B.Pt.	°C	149,3	-	210,0	ASTM D86
Residue	%(V/V)	0,8	-	2,0	ASTM D86
Vapour Pressure (DVPE) 37.8°C	kPa	60,4	-	80,0	ASTM D5191
Aromatic content	%(V/V)	34,5	-	35,0	EN ISO 22854
Olefin content	%(V/V)	15,7	-	18,0	EN ISO 22854
Benzene content	%(V/V)	< 0,1	-	1,0	EN 238
Diolefin content	%(m/m)	< 1,0	-	1,0	DIN 51405 (GC-MS)
Sulphur Content	mg/kg	4,6	-	10,0	ASTM D5453
Lead content	mg/l	< 2,5	-	5,0	EN 237
Manganese content	mg/l	< 0,25	-	2,00	ASTM D3831
Nitrogen	mg/kg	< 40	-	2000	ASTM D5762
Oxidation Stability	min.	> 360	360	-	ASTM D525
Electrical Conductivity	pS/m	> 2000	200	-	ASTM D2624
Oxygen Content	%(m/m)	3,0	-	3,7	ELEMENTAL
<b>ANALYSIS</b>					
Carbon Content	%(m/m)	85,17			ASTM D5291
Hydrogen Content	%(m/m)	11,80			ASTM D5291
C/H Mass Ratio		7,22			CALCULATION
Atomic H/C Ratio		1,6509			CALCULATION
Atomic O/C Ratio		0,0267			CALCULATION
Stoichiometric Air/Fuel Ratio		13,72			SAE J1829

Haltermann Carless UK LTD. Cedar Court Guildford Rd, Leatherhead,  
Surrey, KT22 9RX UK

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Feature	Units	Results	Limits		Method
			Minimum	Maximum	
Gross Heat of Combustion	MJ/kg	43,92			IP 12
Net Heat of Combustion	MJ/kg	41,42			IP 12

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COA Additional Information

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The certificate is electronically generated and valid without signature.

Haltermann Carless UK Ltd.

For enquiries please contact Customer Service or local Sales

**Our Passion Is Your Performance.**

**Specification Sheet:** Race Fuel E85  
(Typical Values)

**Color =** Light Yellow

**Specific Gravity =** 0.7940

**MON =** 86.5

**RON =** 106

**(R+M)/2 =** 96.3

**Oxygen Content =** 31.97%

**Oxidation Stability (min.) =** 1440+

**Leaded:** No

**RVP =** 5.98psi

**Distillation**

**IBP =** 119.8°F

**10% =** 153.9°F

**50% =** 167.0°F

**90% =** 171.0°F

**FBP =** 182.3°F

**H:C ratio =** 2.85

**O:C ratio =** 0.45

**Stoichiometric A/F Ratio =** 9.20

**Rev =** 10/04/19