DRAKENSBERG ENERGY TRADING

PRODUCT SPECIFICATION

RON95 export specification

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Drakensberg Energy Europe EOOD | UIC 208760847

Technical source: Burgas CTS 1-88 | Revision 03 | 12 March 2020

Property	Unit	Requirement	Test method
Research octane number	RON	Minimum 95.0	BDS EN ISO 5164 (1)
Motor octane number	MON	Minimum 85.0	BDS EN ISO 5163 (1)
Density at 15°C	kg/m³	720.0 to 775.0	BDS EN ISO 3675; BDS EN ISO 12185 (2)
Lead	mg/l	Maximum 5	BDS EN 237; VLMI 01-12 (3)
Sulphur	mg/kg	Maximum 10.0	BDS EN ISO 20884; BDS EN ISO 20846
Manganese	mg/l	Maximum 2.0	BDS EN 16135; BDS EN 16136
Oxidation stability	minutes	Minimum 360	BDS EN ISO 7536
Existent gum, solvent washed	mg/100ml	Maximum 5	BDS EN ISO 6246
Copper strip corrosion (3 h at 50°C)	rating	class 1	BDS EN ISO 2160
Appearance	-	Clear and bright liquid	BDS EN 228; BDS ISO 1998-2
Alkenes (olefins)	% (V/V)	Maximum 18.0	BDS EN ISO 22854 (2); BDS EN 15553
Arenes (aromatics)	% (V/V)	Maximum 35.0	BDS EN ISO 22854 (2); BDS EN 15553
Benzene	% (V/V)	Maximum 1.0	BDS EN 12177; BDS EN 238; BDS EN ISO 22854 (2)
Oxygen	% (m/m)	Maximum 2.7	BDS EN 13132; BDS EN ISO 22854 (2)
Methanol	% (V/V)	Maximum 3.0	BDS EN 1601 (2*); BDS EN 13132; BDS EN ISO 22854 (2)
Ethanol	% (V/V)	Maximum 5.0	BDS EN 1601 (2*); BDS EN 13132; BDS EN ISO 22854 (2)
Iso-propyl alcohol	% (V/V)	Maximum 10.0	BDS EN 1601 (2*); BDS EN 13132; BDS EN ISO 22854 (2)
Iso-butyl alcohol	% (V/V)	Maximum 10.0	BDS EN 1601 (2*); BDS EN 13132; BDS EN ISO 22854 (2)
Tert-butyl alcohol	% (V/V)	Maximum 7.0	BDS EN 1601 (2*); BDS EN 13132; BDS EN ISO 22854 (2)
Ethers with 5 or more carbon atoms	% (V/V)	Maximum 15.0	BDS EN 1601 (2*); BDS EN 13132; BDS EN ISO 22854 (2)
Other oxygenates	% (V/V)	Maximum 10.0	BDS EN 1601 (2*); BDS EN 13132; BDS EN ISO 22854 (2)

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Property	Unit	Requirement	Test method
Vapour pressure Class A	kPa	45.0 to 60.0	BDS EN 13016-1
Vapour pressure Class C	kPa	50.0 to 80.0	BDS EN 13016-1
E70 Class A	% (V/V)	20.0 to 48.0	BDS EN ISO 3405
E70 Class C	% (V/V)	22.0 to 50.0	BDS EN ISO 3405
E100 Class A	% (V/V)	46.0 to 71.0	BDS EN ISO 3405
E100 Class C	% (V/V)	46.0 to 71.0	BDS EN ISO 3405
E150 Class A	% (V/V)	Minimum 75.0	BDS EN ISO 3405
E150 Class C	% (V/V)	Minimum 75.0	BDS EN ISO 3405
Final boiling point	°C	Maximum 210	BDS EN ISO 3405
Distillation residue	% (V/V)	Maximum 2	BDS EN ISO 3405
Vapour lock index winter	index	Maximum 1050	10 VP + 7 E70

Specification notes

(1) Source instruction: subtract 0.2 from MON and RON when calculating the final reported result against BDS EN 228. (2) Umpire method. (3) Validated method. (2*) Umpire for methanol only.

Class A summer: 16 March-30 September. Class C winter: 1 October-15 March. E70/E100/E150 are percentages evaporated at 70/100/150°C. Sampling: BDS EN ISO 3170.

Source: https://neftochim.lukoil.com/FileSystem/9/465631.pdf

Refinery specification reference. Values identify the stated grade and source revision; the consignment quality certificate records actual results. This document is separate from the safety data sheet.

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