DRAKENSBERG ENERGY TRADING

PRODUCT SPECIFICATION

HSFO AR export specification

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Drakensberg Energy Europe EOOD | UIC 208760847

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Property	Unit	Requirement	Test method
Density at 15°C	g/cm³	Maximum 1.060	BDS EN ISO 3675; ASTM D 1298; BDS EN ISO 12185
Kinematic viscosity at 80°C	mm²/s	Maximum 113.6	BDS EN ISO 3104; ASTM D 445
Alternative Engler specific viscosity at 80°C	°E	Maximum 15.0	BDS 1766
Sulphur	% (m/m)	Maximum 3.5	BDS EN ISO 8754; ASTM D 4294
Water plus mechanical impurities	% (m/m)	Maximum 0.5 combined	Water: ASTM D 95; impurities: ASTM D 473
Flash point open cup	°C	Minimum 110	BDS EN ISO 2592; ASTM D 92
Flash point closed cup	°C	Minimum 60	BDS EN ISO 2719 (B); ASTM D 93 (B)
Pour point	°C	Maximum 30	BDS EN ISO 3016; ASTM D 97
Ash	% (m/m)	Maximum 0.25	BDS EN ISO 6245; ASTM D 482
Water soluble acids and alkali	-	None	BDS 5252
Total sediment by hot filtration **	% (m/m)	Maximum 0.30	ASTM D 4870; IP 375; BDS ISO 10307-1
Total sediment thermal ageing A **	% (m/m)	Maximum 0.50	IP 390; BDS ISO 10307-2
Total sediment chemical ageing B **	% (m/m)	Maximum 0.50	IP 390; BDS ISO 10307-2
Vanadium	mg/kg	Maximum 350	ASTM D 5863 (A); IP 470; IP 501
Aluminium plus silicon	mg/kg	Maximum 300	ASTM D 5184 (B); IP 501; IP 470; ISO 10478
Polypropylene	-	Free	BP/V.4/09-99
Carbon residue	% (m/m)	Maximum 25	ASTM D 189; ASTM D 4530
Asphaltenes	% (m/m)	Report	ASTM D 6560; IP 143
Sodium	mg/kg	Maximum 100	IP 470; IP 501
Acid number	mg KOH/g	Maximum 2.5	ASTM D 664
Zinc	mg/kg	Maximum 15	IP 470; IP 501
Calcium	mg/kg	Maximum 30	IP 470; IP 501
Phosphorus	mg/kg	Maximum 15	IP 470; IP 501
Specific combustion heat lower	MJ/kg	Minimum 38.5	ASTM D 4809; BDS ISO 8217

Specification notes

Water and mechanical impurities combined: maximum 0.5% (m/m). ** Total-sediment parameters are determined at vessel loading. Sampling: BDS EN ISO 3170.

This AR export grade has a maximum sulphur limit of 3.5% (m/m). It is distinct from the 0.50% marine fuel reference.

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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