

Analytical report

In pursuance of an order for inspection given to us

by : JSC "Lyahovichskij TBZ"

to carry out : sampling, delivery of peat briquettes sample to laboratory of SGS Latvia in Riga, Latvia, for quality analysis as per requested parameters

of the commodity : peat briquettes

batch size : 3000 MT

production date : 02.01-13.01.2021

date of sample preparation : 14.01.2021

sampled at : JSC "Lyahovichskij TBZ", 225385, Belarus, Brest region, Ljahovichi, Tuhovichi vill.

THIS IS TO REPORT that in accordance with instructions received from our Principal JSC "Lyahovichskij TBZ" to perform sampling and analysis of the above mentioned shipment, we hereby report the following:

SAMPLING

Sampling was carried out by employees of JSC "Lyahovichskij TBZ" before arrival of inspector of FE "SGS Minsk" Ltd. Sample preparation was performed on 14.01.2021 with hammermill by employees of JSC "Lyahovichskij TBZ" in the presence of inspector of FE "SGS Minsk" Ltd. As a result of sample preparation, four laboratory samples were prepared. Each sample was packed and sealed by SGS seal in accordance with the table:

Sample No.	Product name	Seal No.	Sample weight, kg	Sample recipient
1	Peat briquettes	K4503501	5,0	Laboratory of SGS Latvia Ltd, Riga, Latvia
2	Peat briquettes	K4503502	5,0	FE "SGS Minsk" Ltd.
3	Peat briquettes	K4503503	5,0	FE "SGS Minsk" Ltd.
4	Peat briquettes	K4503504	5,0	JSC "Lyahovichskij TBZ"

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As per Client's request tests of the sample of peat briquettes No. 1 (SGS seal K 4503501) were performed at the laboratory of SGS Latvia Ltd., Riga (accreditation certificate No. LATAK-T-320-09-2006 valid until 25th March 2025). According to the analytical report of the laboratory number LV.20.21.0002.2 dated 22.01.2021 tests results are as follows:

Proximate Analysis		Results on different bases			
		As-Received (ar)	As-Determined Basis (ad)	Dry Basis (db)	Dry Ash-Free Basis (daf)
Moisture	%	15,82	11,42	-	-
Ash	%	11,69	12,30	13,89	-
Volatile Matter	%	50,06	52,68	59,47	69,06
Fixed Carbon (calculation by difference) /	%	22,43	23,60	26,64	30,94
Total Sulfur	%	0,20	0,21	0,24	0,28

Gross Calorific Value	kcal/kg	4144	4361	4922	5717
	Btu/lb	7459	7850	8861	10291
	J/g (kJ/kg)	17350	18259	20612	23936
	MJ/kg (GJ/t)	17,35	18,26	20,61	23,94
ISO 1928 Net CV, constant volume	kcal/kg	3854	4085	4682	-
	Btu/lb	6938	7353	8428	-
	J/g (kJ/kg)	16138	17102	19604	-
	MJ/kg (GJ/t)	16,14	17,10	19,60	-

NCV(v) requires H analysis

Ultimate Analysis		As-Received Basis (ar)	As-Determined Basis (ad)	Dry Basis (db)	Dry Ash-Free Basis (daf)
Total Hydrogen (includes H in moisture)	%	5,89	5,61	4,89	5,68
Total Sulfur	%	0,20	0,21	0,24	0,28
Ash	%	11,69	12,30	13,89	-
Total					
Moisture		(15,82)	(11,42)	-	-
Hydrogen (excludes H in moisture)	%	4,12	4,33	DB&DAF H & O values exclude H & O in moisture	

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Test Methods

Proximate Analyses / Parameters	Methods
Total Moisture	LVS EN ISO 18134-2
Analytical/Inherent Moisture	LVS EN ISO 18134-3
Ash	LVS EN ISO 18122
Total Sulphur	LVS EN ISO 16994
Volatile Matter GROSS Calorific Value	EN ISO 18123
	EN ISO 18125
Hydrogen content (includes H in moisture) %	LVS EN ISO 16948
Hydrogen content (excludes H in moisture) %	calculation

REMARKS

1. This report refers to the time and place of our intervention. This report does not evidence or refer to any consignment or shipment.
2. This Report is issued by the Company under its General Conditions for Inspection and Testing Services. The analytical report results refer only to the analyzed samples.

Signed and dated in
MINSK JANUARY 23, 2021



FOR AND ON BEHALF OF
SGS MINSK LIMITED

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