



State geological institute of Dionyz Stur

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Geoanalytical laboratories

Reference laboratory of Ministry of environment SR for geology and environment

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Reg. No. 042/S-004

TEST REPORT No. 1638/2024

Number of copies : 3
Copy number : 1

Customer : F.P.U.H. DREW REIF S.C., ul. Babiogórska 49, 34-480 Jablonka, Poľsko
Responsible : Piotr Reif
Telephone : +421 919 075110
Mail : drewreif@wp.pl
Customer order No. : 12.4.2024
Laboratory order No. : 24-00179
Number of samples : 1

Accredited test : A
Non-accredited test : N
Non-accredited subcontracting : SN

Page : 1 of 1
Number of annexes : 0

Date of sample receipt to lab : 10.4.2024
Date of analyses from : 10.4.2024
to : 25.4.2024
Date of test report issue : 29.4.2024

Identification of samples :

Matrix : fuel
Matrix identification : wood pellets
Sample designation : PL / ZUBRICA

Sampler : customer
Place of sampling :
Date of sampling :

Test results

Parameter	Lab. No. - Designation - Unit	24-001638 PL / ZUBRICA	U [%]	LOQ	Principle	Label	Type of test	
Net calorific value	Q _i (d)	[MJ.kg ⁻¹]	19,0	2		K	IP 16.1	A
Net calorific value	Q _i (r)	[MJ.kg ⁻¹]	17,7	2		K	IP 16.1	A
Total water	W _i	[%]	6,36	5	0,20	G	IP 16.3	A
Total sulphur	S _{total} (d)	[%]	< 0,02		0,02	EA	IP 16.7	A
Total sulphur	S _{total} (r)	[%]	< 0,02		0,02	EA	IP 16.7	A
Ash	A (d)	[%]	0,25	10	0,20	G	IP 16.3	A
Elementary analysis	C (d)	[%]	50,3	3	0,05	EA	IP 16.7	A
	H (d)	[%]	6,30	5	0,02	EA	IP 16.7	A
	N (d)	[%]	0,03	20	0,01	EA	IP 16.7	A
Chlorine	Cl	[%]	< 0,01		0,01	RFS	IP 3.2	A
Arsenic	As	[mg.kg ⁻¹]	< 1		1	RFS	IP 3.2	A
Cadmium	Cd	[mg.kg ⁻¹]	< 0,5		0,5	RFS	IP 3.2	N
Chromium	Cr	[mg.kg ⁻¹]	< 5		5	RFS	IP 3.2	A
Copper	Cu	[mg.kg ⁻¹]	< 5		5	RFS	IP 3.2	A
Mercury	Hg	[mg.kg ⁻¹]	< 0,01		0,01	AAS-AMA	IP 1.12	A
Lead	Pb	[mg.kg ⁻¹]	< 5		5	RFS	IP 3.2	A
Zinc	Zn	[mg.kg ⁻¹]	13	15	5	RFS	IP 3.2	A
Nickel	Ni	[mg.kg ⁻¹]	4	15	4	RFS	IP 3.2	A
Bulk density		[kg.m ⁻³]	672	5		G	IP 16.6	A
Grain size analysis: < 3,15 mm		[%]	0,90	10		G	IP 17.3	A
Dimensions	length	[mm]	< 38,4			measuring with a calliper		N
	diameter	[mm]	6			measuring with a calliper		N

The testing laboratory declares that test results are related only to testing subject.

The record on test can be reproduced only complete.

The testing laboratory is not responsible for the information provided to customers that may affect the validity of the results.

If the sample was provided by the customer, the test results relate to the sample as received.

The accreditation of laboratory itself or its record on test means in no case approval of product or its part by the institution administers certification or by any other institution.

Any claims on laboratory tests results could be accepted to 30 days from date of results delivery to the client.

Acceptable are only written claims.

Abbreviations:

U Expanded uncertainty of measurement: relative combined standard uncertainty with coverage factor k=2.
LOQ Limit of quantification
G Gravimetry
EA Elementary Analyze with Thermal Conductivity Detector
K Calorimetry
RFS X-Ray Fluorescence Spectrometry
AAS-AMA Atomic Absorption Spectrometry - Mercury Analyzer
r As sampled
d Moisture-free
IP Internal instruction

Results reviewed and approved by:

RNDr. Nováková Jarmila
head of the inorganic analysis department

Test report approved by:

RNDr. Súra Roland
head of the operation and sample preparation department
