

Laboratory for testing of solid biofuels and compost

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Certificate of Accreditation, Reg. No. 192 LI / 06.03.2025 valid until 08.01.2028, issued by EA BAS, in accordance with the requirements of standard BDS EN ISO/IEC 17025:2018

TEST REPORT**№ 3171 / 18.12.2025****CUSTOMER** /customer's name and information/**AGRIBIOMASS SRL****Via Cappuccini Vecchi, 2 - 62014 Corridonia (MC)****Michela Bruschini****SOLID BIOFUELS - WOOD PELLETS**

/sample name - type/

3171 / 10.12.2025

/number of the request/

10.12.2025

/sample receiving day in the laboratory/

3171, wood pellets, 1 pcs., plastic bag, 15 kg, 2132UKR from Avantage-capital LLC**SAMPLING CERTIFICATE from AGRIBIOMASS SRL for ENplus® certification, from 15.09.2025**

/sample number, type, identification, pcs, quantity, other information about sample/

The sample is provided by the customer

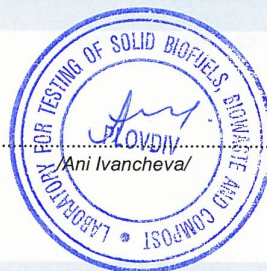
/number and date of sampling report and sampling plan/

TEST METHODS**БДС EN ISO 17829:2025****БДС EN ISO 18134-2:2024****БДС EN ISO 18122:2023****БДС EN ISO 17831-1:2025****БДС EN ISO 17828:2025****БДС EN ISO 18847:2024****БДС EN ISO 5370:2023****БДС EN ISO 18125:2017****БДС EN ISO 16948:2015****БДС EN ISO 16994:2016****БДС EN ISO 16968:2015****БДС EN ISO 21404:2020****10 - 18.12.2025**

/sample test performing period/

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/location of the test/

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TEST RESULTS

Sample number, type, identification: 3171, 2132UKR

№	PARAMETER	UNIT	TEST STANDARD	TEST RESULTS	LIMITS ³⁾			TEST CONDITION
					ENplus® A1	ENplus® A2	ENplus® B	
1	2	3	4	5	6			7
1	Diameter of pellets	mm	БДС EN ISO 17829:2025	6,17 ± 0,03	6 ± 1, 8 ± 1			T 22,1 °C RH 42 %
2	Length of pellets	mm	БДС EN ISO 17829:2025	12,99 ± 1,40	3,15 ≤ L ≤ 40 ⁴⁾			
	Length 40 mm > X < 45 mm	w-%	БДС EN ISO 17829:2025	0	≤ 1 ⁴⁾			
	Length > 45 mm	amount	БДС EN ISO 17829:2025	0	no pellets longer than 45 mm ⁴⁾			
3	Share of pellets with a length < 10 mm	w-%	БДС EN ISO 17829:2025	8,65 ± 0,09	value & category to be stated			T 105 °C
4	Total moisture	w-%	БДС EN ISO 18134-2:2024	7,40 ± 0,06	≤ 10,0			
5	Ash content ¹⁾	w-%	БДС EN ISO 18122:2023	0,29 ± 0,02	≤ 0,70	≤ 1,20	≤ 2,00	T 550 °C
6	Mechanical durability ⁵⁾	w-%	БДС EN ISO 17831-1:2025	98,4 ± 0,1	≥ 98,0	≥ 97,5		T 23,1 °C RH 42 %
7	Bulk density	kg/m ³	БДС EN ISO 17828:2025	682 ± 1	600 ≤ BD ≤ 750			T 21,9 °C RH 43 %
8	Particle density	g/cm ³	БДС EN ISO 18847:2024	1,21 ± 0,11	value to be stated			
9	Coarse fines (3,15 mm ≤ FP < 5,6 mm)	w-%	БДС EN ISO 5370:2023	0,144 ± 0,002	value to be stated			
10	Fines (< 3,15 mm)	w-%	БДС EN ISO 5370:2023	0,060 ± 0,001	≤ 1,0 ⁶⁾ (≤ 0,5 ⁷⁾)			
11	Net calorific value	kWh/kg	БДС EN ISO 18125:2017	4,973 ± 0,048	≥ 4,6 ⁸⁾			T 960 °C
12	Nitrogen	w-%	БДС EN ISO 16948:2015	0,232 ± 0,008	≤ 0,3	≤ 0,5	≤ 1,0	
13	Sulphur ¹⁾	w-%	БДС EN ISO 16994:2016	0,00052 ± 0,00007	≤ 0,04			T 21,9 °C RH 40 %
14	Chlorine ¹⁾	w-%	БДС EN ISO 16994:2016	0,00437 ± 0,00034	≤ 0,02		≤ 0,03	T 23,0 °C RH 42 %
15	Arsenic ¹⁾	mg/kg	БДС EN ISO 16968:2015	< 0,5 ²⁾	≤ 1			
16	Cadmium ¹⁾	mg/kg	БДС EN ISO 16968:2015	< 0,1 ²⁾	≤ 0,5			
17	Chromium ¹⁾	mg/kg	БДС EN ISO 16968:2015	0,39 ± 0,01	≤ 10			
18	Copper ¹⁾	mg/kg	БДС EN ISO 16968:2015	1,226 ± 0,006	≤ 10			
19	Lead ¹⁾	mg/kg	БДС EN ISO 16968:2015	< 1,8 ²⁾	≤ 10			
20	Mercury ¹⁾	mg/kg	БДС EN ISO 16968:2015	< 0,05 ²⁾	≤ 0,1			
21	Nickel ¹⁾	mg/kg	БДС EN ISO 16968:2015	0,46 ± 0,04	≤ 10			
22	Zinc ¹⁾	mg/kg	БДС EN ISO 16968:2015	8,3 ± 0,1	≤ 100			
23	Ash melting behaviour/temperature ¹⁰⁾	°C	БДС EN ISO 21404:2020					
	Shrinkage starting temperature	°C	БДС EN ISO 21404:2020	1198 ± 5	-			
	Deformation temperature	°C	БДС EN ISO 21404:2020	1245 ± 10	≥ 1200	≥ 1100		
	Hemisphere temperature	°C	БДС EN ISO 21404:2020	1290 ± 10	-			
	Flow temperature	°C	БДС EN ISO 21404:2020	1348 ± 5	-			

1) The results based on dry matter

2) The limit is determined by the scope of the method.

3) The information in column 6 corresponds to the requirements of ENplus® ST 1001 - ENplus® wood pellets – Requirements for companies, Version 3.0, 2023, table 4

4) A maximum of 1% of the pellets may be longer than 40mm. No pellets longer than 45 mm are allowed.

5) At the loading point of the transport vehicle at the production site.

6) At company gate or when loading big bags or truck for deliveries to end-users.

7) At company gate, when filling bags (bagged pellets).

8) Equal ≥ 16,5 MJ/kg as received.

9) The amount of additives in production shall be limited to 0 w-% while the amount of post-production additives (e.g. coating oils) shall be limited to 0,2 w-% of the pellets.

Additives data provided by the customer in the sampling certificate for ENplus® certification is 0% Maize Starch.

10) Ash is produced at 815 °C

Notes:

The results are related only to the samples tested

The test report or extracts from the test report may not be reproduced without written consent of the testing laboratory.

The reported extended uncertainty of the measurement result is at a coverage factor of k = 2 and a confidence probability of P = 95%

The laboratory is not responsible for the data and information provided by the customer, which may affect the validity of the results.

The sample is supplied by the customer and the Laboratory is not responsible for the activities performed by the customer.

The laboratory does not report opinions and interpretations under item 7.8.7 BDS EN ISO/IEC 17025:2018.

RESPONSIBLE FOR THE TESTS:

/D. Nachev/

HEAD OF LABORATORY:

/Ani Ivancheva/



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