



AB 088

**TESTING LABORATORY OF WOOD, WOOD-BASED MATERIALS,
PACKAGING, FURNITURE AND CONSTRUCTIONS**

SOLID BIOFUELS TESTING SECTION

Poznań, 17.06.2021



TEST REPORT
No. 2081/2021/S.M

Subject of the order	Quality testing of wood pellets – RADEX Sp. z o.o. Sp. k.
Order No	A-2081-BBI/2021
Name and address of the customer	Control Union Poland Sp. z o.o. Al. Wojska Polskiego 45, 65-764 Zielona Góra
Name and address of the producer	RADEX Sp. z o.o. Sp. k. ul. Komunalna 2, 14-200 IŁAWA
ENplus® ID / Sample No.	6mm-RADEX-08.06.2021-2 ENplus
Performance date	17.06.2021
Operators	Monika Kubińska, M.Sc.

Compiled by

Authorized by

--	--

Małgorzata Walkowiak, M.Sc.Eng.

Wojciech Cichy, PhD.Eng.

A qualified electronic signature has been affixed to this document, which according to the law is equivalent to written form.

1. IDENTIFICATION (DESCRIPTION OF TEST SAMPLE)

The object of the assessment was the sample of solid biofuels in the form of pellets with diameter of 6 mm, described by the customer as pellets produced from chemically untreated by-products and residues from the wood processing industry.

Sample number: 6mm-RADEX-08.06.2021-2 ENplus.

Identification number: A-2081-BBI/2021

2. DELIVERY DATE OF TESTED SUBJECTS

The sample was taken by the customer and delivered to the laboratory on 15th June 2021.

3. TEST METHODS

- EN ISO 18134-2:2015-11 Solid biofuels – Determination of moisture content – Oven dry method – Part 2: Total moisture – Simplified method (Method 1M)
- EN ISO 18846:2016 Solid biofuels – Determination of fines content in quantities of pellets (Method 9M)
- EN ISO 17831-1:2016-02 Solid biofuels – Determination of mechanical durability of pellets and briquettes – Part 1: Pellets (Method 10M)

4. EQUIPMENT OF THE TEST STANDS (elementary)

No.	Name	Type	Producer	Lab.No.
1.	Laboratory drier	Redline RF115	BINDER	M1/47
2.	Laboratory balance	PS 6000/C/2	RADWAG	M3/50
3.	Pellets durability tester	TUMBLER 3000	BIOENERGY ANLAGENPLANUNG	M10/42
4.	Sieve 3.15 mm	-	RETSCH	M9/34

5. TESTS RESULTS

Tests results are presented in record No 1/2081/2021.

6. DECLARATION

The test results refer only to the sample and do not necessarily mean that similar products or seemingly identical have the same properties.

The Test Report cannot be copied in parts, only in its entirety.

Record No. 1/2081/2021

Sample name: Wood pellets
Name of Producer: RADEX Sp. z o.o. Sp. k.
 ul. Komunalna 2, 14-200 IŁAWA
ENplus® ID/sample No.: 6mm-RADEX-08.06.2021-2 ENplus

Origin:		1. Woody biomass				
Traded form:		Wood pellets				
Classification of origin according to EN ISO 17225-1:2014		1.2.1 Chemically untreated by-products and residues from the wood processing industry				
Parameter	Unit	Value	Uncertainty [±] ¹	Threshold value acc. to ENplus® Handbook, Part 3 version 3.0		
				A1	A2	B
Moisture	w-% _{ar}	6.64	0.24	≤ 10		
Mechanical durability	w-% _{ar}	98.3	0.2	≥ 98.0	≥ 97.5	
Fines (< 3.15 mm)	w-% _{ar}	0.14	0.02	≤ 1.0 (< 0.5%) ²		

_d dry _{ar} as received

1. the expanded uncertainty was determined for coverage factor k = 2 and 95% confidence level

2. at factory gate, at the end of production or when loading truck for deliveries to end-users (< 0.5% when filling pellet bags or sealed big bags)

End of report