



STATE AGRARIAN UNIVERSITY OF MOLDOVA
RESEARCH CENTER FOR AGRICULTURAL ENGINEERING
SOLID BIOFUELS LABORATORY

MD-2049, Chisinau, Mircești str., nr. 56, tel: (373-22) 43.24.55. 079446342 fax
(373-22) 31-22-32. E-mail: marian@uasmd.md

TEST REPORT
No. 4 Date 20.10.2021

Client: SA Floarea Soarelui
Client order: 01.10.21. LBCS

Date of sample received: The samples for testing were presented by the customer on his own responsibility

Date received: 10.10.2021

Sample quantity: 30kg

Date reported: 19.10.2021

Test purposes: Compliance tests

Name of sample: Nestor Briquettes from sunflower shell

Laboratory Sample ID: 01.10/B 1-3, 5, 6, 9, 11

Table of test

No.	Test parametr	Test methods	Result	Normative according to SM EN ISO 17225
1.	Gross calorific value dry	SM EN ISO 18125:2017	20,01 MJ/kg; (4798,77 kcal/kg)	Q=20,01 MJ/kg
2.	Net calorific value dry	SM EN ISO 18125:2017	18,82 MJ/kg; (4494,49 kcal/kg)	Q=18,8 MJ/kg
3.	Net calorific value as delivered ¹⁾	SM EN ISO 18125:2017	17,02 MJ/kg; (4065,41 kcal/kg)	Q=17,01 MJ/kg
4.	Moisture as delivered	SM EN ISO 18134-1:2017	7,94 %	M 10
5.	Particle density	SM EN ISO 18847:2017	1,1 g·cm ⁻³	DE 1.1
6.	Ash drav	SM EN ISO 18122:2017	2,96 %	A 3.0
7.	Carbon dry material	SM ISO 29541:2016 SM EN ISO 16994:2017	47,48%	-
8.	Hydrogen dry material	SM ISO 29541:2016 SM EN ISO 16994:2017	5,84%	-
9.	Nitrogen dry material	SM ISO 29541:2016 SM EN ISO 16994:2017	0,42%	N 0,5
10.	Sulfur dry material	SM ISO 29541:2016 SM EN ISO 16994:2017	0,04%	S 0,04

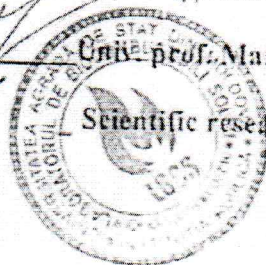
1. The net calorific value as delivered was determined for moisture 7,94%.
2. The tests were carried out at the following environmental conditions: t = 21°C; Umid. rel. = 65%.
3. The results are shown in the document refer only to the samples received and tested and not intended to be representative of any lot, cargo or shipment.
4. The document cannot be reproduced except in full, without prior approval of the testing laboratory.

Head of the laboratory _____

Univ. prof. Marian Grigore

Executor _____

Scientific researcher Gudîma Andrei



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