STATE AGRARIAN UNIVERSITY OF MOLDOVA
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T E S T R E P O R T

No. 5 Date 12.07.2022

Client: SA Floarea Soarelui
Client order: 02.06.22. LBCS
Date of sample received: The samples for testing were presented by the customer on his own responsibility
Date received: *24.06.2022*
Date reported: *12.07.2022*
Sample quantity: 15kg
Test purposes: *Compliance tests*
Name of sample: Pellets from sunflower shell
Laboratory Sample ID: *02.06/P 1-7; 8-11*

Table of test

No.	Test parametrs	Test methods	Rezult	Normative according to SM EN ISO 17225
1.	Gross calorific value dry	*SM EN ISO 18125 2017*	20,26 MJ/kg; (4838 kcal/kg)	Q=20,26 MJ/kg
2.	Net calorific value dry	*SM EN ISO 18125 2017*	18,93 MJ/kg; (4519.804 kcal/kg)	Q=18,93 MJ/kg
3.	Net calorific value as delivered [1)]	*SM EN ISO 18125 2017*	17,19 MJ/kg; (4104.617 kcal/kg)	Q=17,19 MJ/kg
4.	Moisture as delivered	*SM EN ISO 18134-1:2017*	8,14 %	M 10
5.	Bulk density	*SM EN ISO 17828*	601,9 kg·m^{-3}	BD 550
6.	Ash dray	*SM EN ISO 18122:2017*	2,41 %	A 3.0
7.	Carbon dry material	*SM ISO 29541:2016 SM EN ISO 16994:2017*	47,5%	-
8.	Hydrogen dry material	*SM ISO 29541:2016 SM EN ISO 16994:2017*	6,13%	-
9.	Nitrogen dry material	*SM ISO 29541:2016 SM EN ISO 16994:2017*	0,5%	N 0,5
10.	Sulfur dry material	*SM ISO 29541:2016 SM EN ISO 16994:2017*	0,05%	S 0,05
11.	Chlorine dry material	*SM ISO 29541:2016 SM EN ISO 16994:2017*	0,03	0,03

1. *The net calorific value as delivered was determined for moisture 8,14%.*
2. *The tests were carried out at the following environmental conditions: t = 22°C; Umid. rel. = 70%.*
3. *The results are shown in the document refer only to the samples received and tested and not intended to by 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 Gudima Andrei**

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