

Granulés pour poêle à chauffer

Marque : BG



Sac	sac / palette	palette / camion	sac / camion
15kg	70	22	1540



PRODUIT

Dénomination	Granulés d'écorces de tournesol
Ingrédients	100% Coque de tournesol
Diamètre	8,28 mm
Température de conservation	À conserver dans un endroit sec

CARACTÉRISTIQUES

Taux de cendre	3.17 %
P.C.I Hydre	4520 kcal/kg
Taux de Soufre (S)	0,09%
Densité réelle	660 kg/m ³
Humidité	8.72%

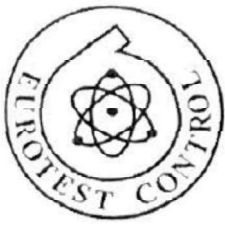
USAGES

Chauffage aux granulés (Hôtels, restaurants, maison..)	Produit à utiliser uniquement pour les appareils de chauffage appropriés
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- ✓ Permet de réduire le chargement et le nettoyage du système d'appareils de chauffage à une fois par semaine.
- ✓ Ils prennent peu de place.
- ✓ Ils n'ont pas besoin d'être hachés, séchés, ou arrangés.
- ✓ Très bon retour sur investissement (produit résiduel).
- ✓ Les granulés sont fabriqués à partir de résidus de tournesol entièrement naturels et uniquement par traitement mécanique et thermique.
- ✓ Ils sont respectueux de l'environnement et ils ne polluent pas.
- ✓ Nous rend moins dépendants des changements brusques et drastiques des prix des combustibles fossiles tels que le pétrole et le gaz.

BRANDED GROUP

9 rue des colonnes 75002 PARIS | Tél : +33 1 84 21 02 87 | contact@branded-group.fr



TESTING LABORATORY DIRECTORATE
EUROTEST-CONTROL EAD

108 Besarabia St, 1517 Sofia, tel + 359 2 4470 360, tel/fax + 359 2 8720 596, www.eurotest-control.bg,
e-mail: office@eurotest-control.bg

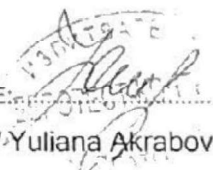
QF 708-1/1EN
version 2/2020



TEST REPORT
№ 7467 / 15.12.2021

1. **Biofuels: Pellets**
(product designation-type, brand, sort, etc.)
2. **Customer:**
(name and address of the customer)
3. **Object: Company for storage and processing of essential oils, oilseeds, technical and cereals -**
(description of the object/location of sampling)
4. **Sampling: The sample has been provided by the customer.**
(sampling plan, sampling report, sampling method, additions, deviations or exclusions from the sampling method)
5. **Description of the samples: 1 sample**
(number, quantity, etc.)
6. **Test method(s): ETC 7.3-4/2014; БДС EN ISO 18122:2015; БДС EN ISO 18125:2017; БДС EN ISO 18134-2:2017; БДС EN ISO 18134-3:2015**
(identification of the test method(s) used)
7. **Incoming number and date of receipt of the test sample(s): 3121 / 13.12.2021**
(number and date of the request of test request)
8. **Test performing period: 12.12.2021 r. to 15.12.2021**
9. **Location of test performance: „Testing Laboratory Directorate“ at “Eurotest - Control” EAD, 108 Besarabia St, 1517 Sofia**

DIRECTOR OF TESTING LABORATORY DIRECTORATE:


/Yuliana Akrabova /



10. Test results

Laboratory № 2113973

Sample data: sample № , object: 2021 harvest, sunflower husk pellets

Range (norm, category) according to: БДC EN ISO 17225 - 6:2021, table 1, class A

№	Measurand	Standards / validated methods	Unit	Measurement result (quantity value, expanded uncertainty)	Measurement value and range defined by specification	Compliance with specification / standard	Environmental conditions
1	2	3	4	5	6	7	8
1	Total moisture	БДC EN ISO 18134-2:2017	%	10.95 ± 0.22	M10 ≤ 10	comply	t (22±4) °C RH (30+60)%
2	Analytical moisture	БДC EN ISO 18134-3:2015	%	0.51 ± 0.02	not normalized	-	t (22±4) °C RH (30+60)%
3	Ash (on dry fuel, Ad)	БДC EN ISO 18122:2015	%	2.80 ± 0.08	A6.0 ≤ 6.0	comply	t (22±4) °C RH (30+60)%
4	Sulfur (on dry fuel, Sd)	ETC 7.3-4/2014	%	0.14 ± 0.01	S0.20 ≤ 0.20	comply	t (22±4) °C RH (30+60)%
5	Calorific value (net on working fuel, Qv,net,m)	БДC EN ISO 18125:2017	kWh/kg	4.68 ± 0.02	Q4.0 ≥ 4.0	comply	t (22±4) °C RH (30+60)%
6	Calorific value (net on working fuel, Qv,net,m)	БДC EN ISO 18125:2017	MJ/kg	16.84 ± 0.06	Q14.5 ≥ 14.5	comply	t (22±4) °C RH (30+60)%

Assessment of compliance: The tested sample vintage 2021, sunflower husk pellets with lab. № 2113973 on measurands for which conformity assessment was carried (column 7) conforms to the requirements of БДC EN ISO 17225-6:2021, table 1, class A. Compliance decisions (column 7) are based on the decision making rule, agreed with the customer, according to ILAC G 8:2009 with Guard Bands and the Specific Risk associated with it. Guard Bands are defined as 1 U, where U is the expanded measurement uncertainty. The statement of conformity is Binary Statement. The probability of false acceptance of the result is ≤ 2.5 %.

NOTES:

1. Test results refer only to the tested samples.
2. TLD is not responsible for the sampling accuracy, sample storage term and sample storage conditions preceding the submission to the laboratory.
3. TLD is responsible for the whole information in the test report with exception of the information provided by the client in items 1 to 5 (included) and the information for the sample in item 10. TLD is not responsible if the information provided by the client may affect the results validity.
4. When the test result is reported with its expanded uncertainty, this expanded uncertainty:
 - is indicated as a standard uncertainty, multiplied by a coefficient of coverage k=2, which in a normal distribution corresponds to a coverage probability of approximately 95 %.
 - includes the sampling uncertainty only when the sampling was performed by the laboratory.
5. Additional information for interpretation of the testing results which may be required for the specific test method by the client or the competent authority: Not required by the customer.
6. Additions, deviations or exceptions from the test methods: No.
7. TDL does not provide any comments or interpretation of the test results.
8. The test report shall not be reproduced if is not in its fullness without written approval of the laboratory.

HEAD OF DEPARTMENT:.....

/ eng. Radosvetla Krasteva /

DIRECTOR OF TESTING
LABORATORY DIRECTORATE:.....

/ Yuliana Akrabova /



Laboratory for testing of solid biofuels and compost



4000 Plovdiv, 140 Ruski Blvd, fl. 4, phone: +359 893 558 649, fax: +359 32/625 754
e-mail: biofuels-lab@eap-save.eu, http://www.eap-save.eu

TEST REPORT № 32-L-PI-1530 / 19.09.2022

CUSTOMER /customer's name and information/

SAS BRANDED GROUP
9 RUE DES COLONNES, PARIS 75002, FRANCE
Michel Amos

SOLID BIOFUELS - NON-WOODY PELLETS

/sample name - type/

32-09-1530 / 09.09.2022

/number of the request/

9/9/2022

/sample receiving day in the laboratory/

1530, sunflower pellets, 1 pcs., plastic bag, 15 kg.

/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 17829:2015
БДС EN ISO 18134-2:2017
БДС EN ISO 18846:2017
БДС EN ISO 17828:2015
БДС EN ISO 18122:2015
БДС EN ISO 18125:2017
БДС EN ISO 17831-1:2015

БДС EN ISO 16994:2016
БДС EN ISO 16948:2015
БДС EN ISO 18123:2015
БДС EN ISO 16968:2015
БДС EN ISO 16967:2015
БДС EN ISO 21404:2020

09 - 19.09.2022

/sample test performing period/

Laboratory for testing of solid biofuels and compost

/location of the test/

HEAD OF LABORATORY:


.....
/V. Markova/



Laboratory for testing of solid biofuels and compost



4000 Plovdiv, 140 Ruski Blvd, fl. 4, phone:+359 893 558 649, fax: +359 32/625 754
e-mail: biofuels-lab@eap-save.eu, http://www.eap-save.eu

TEST RESULTS

Sample number, type, identification: 1530, sunflower pellets

No	PARAMETER	UNIT	TEST METHOD	TEST RESULTS (VALUE ± UNCERTAINTY)	LIMITS OF THE PARAMETERS*	TEST CONDITION	
1	2	3	4	5	6	7	
1	Diameter	mm	БДС EN ISO 17829:2015	8,28 ± 0,03	8 ± 1	T 23,5 °C RH 37 %***	
2	Length	mm	БДС EN ISO 17829:2015	6,78 < L ≤ 24,20	3,15 < L ≤ 40		
3	Total moisture content	%	БДС EN ISO 18134 2:2017	8,72 ± 0,08	≤ 12	T 105 °C**	
4	Fines	%	БДС EN ISO 18846:2017	1,31 ± 0,06	≤ 2,0	T 23,5 °C RH 37 %***	
5	Bulk density	kg/m ³	БДС EN ISO 17828:2015	630 ± 4	≤ 600		
6	Ash content (dry basis)	%	БДС EN ISO 18122:2015	3,17 ± 0,08	≤ 6	T 550 °C**	
7	Calorific value (net, as received)	MJ/kg	БДС EN ISO 18125:2017	17,064 ± 0,018	≥ 14,5	T 23,5 °C RH 37 %***	
		kWh/kg		4,740 ± 0,005	≥ 4,0		
		kcal/kg		4078 ± 4			
8	Calorific value (net, dry basis)	MJ/kg	БДС EN ISO 18125:2017	18,914 ± 0,021	-	T 23,5 °C RH 37 %***	
		kWh/kg		5,254 ± 0,006	-		
		kcal/kg		4520 ± 5	-		
9	Mechanical durability	%	БДС EN ISO 17831-1:2015	97,9 ± 0,2	≥ 97,5	T 23,5 °C RH 37 %***	
10	Sulfur content (dry basis)	%	БДС EN ISO 16994:2016	0,092 ± 0,001	≤ 0,2		
11	Chlorine content (dry basis)	%	БДС EN ISO 16994:2016	0,032 ± 0,001	≤ 0,1		
12	Carbon content (dry basis)	%	БДС EN ISO 16948:2015	48,6 ± 0,1	-	T 1100 °C**	
13	Hydrogen content (dry basis)	%	БДС EN ISO 16948:2015	5,63 ± 0,04	-		
14	Nitrogen content (dry basis)	%	БДС EN ISO 16948:2015	0,490 ± 0,001	≤ 1,5		
15	Volatile matter	%	БДС EN ISO 18123:2015	78,38 ± 0,12	-	T 900 °C**	
16	Minor elements (dry basis)	mg/kg	БДС EN ISO 16968:2015			T 23,2 °C RH 40 %***	
		As		mg/kg	< 0,5****		≤ 1
		Cd		mg/kg	< 0,1****		≤ 0,5
		Cr		mg/kg	6,28 ± 0,08		≤ 50
		Cu		mg/kg	8,83 ± 0,12		≤ 20
		Hg		mg/kg	< 0,05****		≤ 0,1
		Ni		mg/kg	4,26 ± 0,27		≤ 10
		Pb		mg/kg	2,68 ± 0,11		≤ 10
		Zn		mg/kg	11,3 ± 0,4		≤ 100
		Co		mg/kg	< 0,4****		-
		Mn		mg/kg	8,39 ± 0,28		-
		Mo		mg/kg	0,394 ± 0,020		-
		Sb		mg/kg	< 0,5****		-
V	mg/kg	0,292 ± 0,033	-				

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.

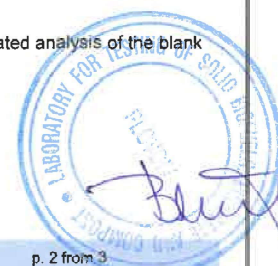
The sample is supplied by the customer and the Laboratory is not responsible for the activities performed by the customer.

* The information in column 6 is in accordance with the requirements of EN ISO 17225-6:2021, Table 1, Class A requirements and does not constitute conformity declaration reporting

**Test conditions according to the requirements of the used standards

***Test conditions (temperature and relative humidity) in the laboratory

****The limit is determined by the scope of the method. The limit of quantification method LOQ is determined experimentally by repeated analysis of the blank and calculation the standard deviation SD_{blank} . $LOQ = 10 * SD_{blank} * \text{dilution factor}$



Laboratory for testing of solid biofuels and compost



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e-mail: biofuels-lab@eap-save.eu, http://www.eap-save.eu

TEST RESULTS

Sample number, type, identification: 1530, sunflower pellets

No	PARAMETER	UNIT	TEST METHOD	TEST RESULTS (VALUE ± UNCERTAINTY)	LIMITS OF THE PARAMETERS*	TEST CONDITION
1	2	3	4	5	6	7
17	Main elements (dry basis)	mg/kg	БДС EN ISO 16967:2015			T 23,2 °C RH 40 %***
	Al	mg/kg		171 ± 2	-	
	Ca	mg/kg		4186 ± 14	-	
	Fe	mg/kg		1360 ± 46	-	
	Mg	mg/kg		2877 ± 56	-	
	P	mg/kg		462 ± 19	-	
	K	mg/kg		6876 ± 116	-	
	Si	mg/kg		150 ± 10	-	
	Na	mg/kg		112,3 ± 3,0	-	
	Ti	mg/kg	8,10 ± 0,17	-		
18	Ash melting behaviour		БДС EN ISO 21404:2020			
	shrinking temperature (SST)	°C		700 ± 10	-	
	deformation temperature (DT)	°C		1220 ± 20	-	
	hemisphere temperature (HT)	°C		1450 ± 20	-	
	flow temperature (FT)	°C		1490 ± 20	-	

Notes:

The results are related only to the samples tested

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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 information in column 6 is in accordance with the requirements of EN ISO 17225-6:2021, Table 1, Class A requirements and does not constitute conformity declaration reporting

***Test conditions (temperature and relative humidity) in the laboratory

RESPONSIBLE FOR THE TESTS:

.....
/P. Argirova/

.....
/A. Ivancheva/

HEAD OF LABORATORY:

.....
/V. Markova/



	PETROLEUM TESTING LABORATORY at SGS BULGARIA LTD	FK 708-1
	BURGAS - 8104 LUKOIL Neftochim, Tel.: 056 898412; Tel./Fax: 056 898037; e-mail:ogclab.burgas@sgs.com	P. 1 of 2

TEST REPORT
№ 6274/13.09.2022

Product:	Solid Biofuels
Order №:	3080/09.09.2022
Sample ID:	3080/22-1
SGS Ref. №:	20002379
Customer:	SAS BRANDED GROUP
Customer address:	9 RUE DES COLONNES, 75002 PARIS ,France
Object:	-
Location:	-
Sample description by the client:	BG pellets
Date of receipt of the sample:	09.09.2022
Sampling Report:	Provided with bill of lading №51086208939 on 09.09.2022
Packing:	plastic
Packing condition:	Good
Testing date:	09.09.2022 - 13.09.2022
Place of testing:	In the premises of Petroleum Testing Laboratory at SGS Bulgaria LTD
Arbitrary sample / Seal №:	-

TEST RESULTS

№	Parameter	Unit	Method	Result (value, uncertainty)	Value and tolerance	Testing conditions
1	Gross calorific value ¹	MJ/kg	BDS EN ISO 18125:2017	20,007	-	24 °C 51 RH,%
2	Water content	% (m/m)	BDS EN ISO 18134-1:2015	10,2	-	105 °C
3	Ash content ¹	% (m/m)	BDS EN ISO 18122:2015	3,52	-	550 °C
4	Sulphur content ¹	% (m/m)	BDS EN ISO 16994:2016	0,07	-	24 °C 51 RH,%
5	chlorine content ¹	% (m/m)	BDS EN ISO 16994:2016	0,05	-	24 °C 51 RH,%

	PETROLEUM TESTING LABORATORY at SGS BULGARIA LTD	FK 708-1
	BURGAS - 8104 LUKOIL Neftochim, Tel.: 056 898412; Tel./Fax: 056 898037; e-mail:ogclab.bourgas@sgs.com	P. 2 of 2

TEST REPORT № 6274/13.09.2022

The results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior written approval of the Petroleum Testing Laboratory at SGS Bulgaria LTD. Precision parameters apply in the determination of the above results. Unless otherwise stated arbitrary samples (if any) are retained for 90 days only.

In case the sample is provided by the Client or prepared by a third party acting on the Client's instructions, the Laboratory shall not be responsible for the representativeness of the sample. The test results obtained relate only to the sample provided.

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

¹ The parameters are determined on a dry basis.

This test report is generated, verified and approved digitally. It is valid without a handwritten signature.

Chemist: Ivanova

(name, signature)



Chief of Laboratory: Tamahkyarova

(name, signature, stamp)



END

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