Eurofins Umwelt Ost GmbH - Lindenstraße 11 - Gewerbegebiet Freiberg Ost -
09627 Bobritzsch-Hilbersdorf

Control Union Certifications Germany GmbH
Bornitzstraße 73-75
10365 Berlin

Title :	**Analytical Report for Order 12600070**
Test report number :	**AR-26-FR-005597-01**
Project name :	**PRJ: 849617 UAB GRANULITA**
Number of samples :	**2**
Sample type:	**wood pellets**
Date of sample taking :	**2025-12-17**
Sample Taker:	**not specified, sample(s) were delivered to lab**
Sample reception date :	**2026-01-05**
Sample processing time :	**2026-01-05 - 2026-01-30**
Comment:	Inspection report number: LT 002_849617_2025_12_27

The test results refer exclusively to the samples analyzed as delivered. If sample containers, sample carriers and culture media procured and/or stored by the client are used, an influence on the test results cannot be excluded. If the sampling was not carried out by our laboratory or on our behalf, no guarantee is assumed for this. This also applies to calculation results based on data provided by the client. Details of the sample designation, sampling date, sample type and sample information are provided by the client. This test report is signed with a qualified electronic signature and may only be published completely and unchanged. Extracts or changes require the authorisation of Eurofins Umwelt Ost GmbH in each individual case.

Our General Terms & Conditions of Sale (GTCS) are applicable, as far as no specific agreements do exist. The GTCS are available on http://www.eurofins.de/umwelt/avb.aspx.

Accredited test laboratory according to DIN EN ISO/IEC 17025:2018 DAkkS notification under the DAkkS German Accreditation System for Testing. The laboratory is according (D-PL-14081-01-00) accredited.

Attachments

XML_Export_AR-26-FR-005597-01.xml

DAkkS Deutsche Akkreditierungsstelle D-PL-14081-01-00

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Deutsche
Akkreditierungsstelle
D-PL-14081-01-00

												Description		847617-BAG-VAINIUNAI-LINE 1		847617-BAG-VAINIUNAI-LINE 2	
												Date and time of sample taking		2025-12-17		2025-12-17	
				Limit values								Sample number		126000227		126000228	
Parameter	**Lab**	**Accr.**	**Method**	ENplus A1 ar	ENplus A1 db	Enplus A2 ar	ENplus A2 db	ENplus B ar	ENplus B db	**LOQ**	**Unit**	**ar**	**db**	**ar**	**db**
Quality characteristics																	
Length	FR	F5	DIN EN ISO 17829: 2016-03	3)		3)		3)				o.k.	-	-	-
Diameter	FR	F5	DIN EN ISO 17829: 2016-03	4)		4)		4)			mm	6.1	-	-	-
Moisture	FR	F5	DIN EN ISO 18134-2: 2017-05	10 5)		10 5)		10 5)		0.1	% (w/w)	6.5	-	-	-
Ash content (550°C)	FR	F5	DIN EN ISO 18122: 2016-03		0.7 6)		1.2 6)		2 6)	0.1	% (w/w)	0.4	0.4	-	-
Durability	FR	F5	DIN EN ISO 17831-1: 2016-05	≥ 98 7)		≥ 97.5		≥ 97.5			% (w/w)	99.2	-	-	-
Fine portion < 3,15 mm	FR	F5	EN ISO 5370: 2025-01	1 8)		1 8)		1 8)		0.1	% (w/w)	0.2	-	< 0.1	-
Coarse pellet fines, CPF > 3,15 - < 5,6 mm	FR	F5	EN ISO 5370: 2025-01	9)		9)		9)		0.1	% (w/w)	< 0.1	-	< 0.1	-
Bulk density	FR	F5	DIN EN ISO 17828: 2016-05	600 - 750		600 - 750		600 - 750			kg/m³	686	-	-	-
Particle density	FR	F5	DIN EN ISO 18847: 2016-12	9)		9)		9)			g/cm³	1.20	-	-	-
Gross calorific value (qV,gr)	FR	F5	DIN EN ISO 18125: 2017-08							200	kJ/kg	19300 1)	20600 1)	-	-
Net calorific value (qp,net)	FR	F5	DIN EN ISO 18125: 2017-08	≥ 4.6 10)		≥ 4.6 10)		≥ 4.6 10)		0.06	kWh/kg	4.97 2)	5.36 2)	-	-
Carbon	FR	F5	DIN EN ISO 16948: 2015-09							0.2	% (w/w)	48.0	51.3	-	-
Nitrogen	FR	F5	DIN EN ISO 16948: 2015-09		0.3		0.5		1	0.05	% (w/w)	< 0.05	< 0.05	-	-
Hydrogen	FR	F5	DIN EN ISO 16948: 2015-09							0.1	% (w/w)	5.6	6.0	-	-
Oxygen	FR	F5	DIN EN ISO 16993: 2016-11								% (w/w)	39.5	42.2	-	-
Sulphur	FR	F5	DIN EN ISO 16994: 2016-12		0.04		0.04		0.04	0.005	% (w/w)	0.018	0.019	-	-
Chlorine	FR	F5	DIN EN ISO 16994: 2016-12		0.02		0.02		0.03	0.005	% (w/w)	0.017	0.019	-	-

										Description		**847617-BAG-VAINIUNAI-LINE 1**		**847617-BAG-VAINIUNAI-LINE 2**	
										Date and time of sample taking		**2025-12-17**		**2025-12-17**	
				Limit values						**Sample number**		**126000227**		**126000228**	
Parameter	**Lab**	**Accr.**	**Method**	ENplus A1 ar	ENplus A1 db	Enplus A2 ar	ENplus A2 db	ENplus B ar	ENplus B db	**LOQ**	**Unit**	**ar**	**db**	**ar**	**db**
Trace elements acc. to DIN EN ISO 16968: 2015-09															
Arsenic (As)	FR	F5	DIN EN ISO 17294-2 (E29): 2017-01		1		1		1	0.8	mg/kg	-	< 0.8	-	-
Lead (Pb)	FR	F5	DIN EN ISO 17294-2 (E29): 2017-01		10		10		10	2	mg/kg	-	< 2	-	-
Cadmium (Cd)	FR	F5	DIN EN ISO 17294-2 (E29): 2017-01		0.5		0.5		0.5	0.2	mg/kg	-	< 0.2	-	-
Chromium (Cr)	FR	F5	DIN EN ISO 17294-2 (E29): 2017-01		10		10		10	1	mg/kg	-	< 1	-	-
Copper (Cu)	FR	F5	DIN EN ISO 17294-2 (E29): 2017-01		10		10		10	1	mg/kg	-	< 1	-	-
Nickel (Ni)	FR	F5	DIN EN ISO 17294-2 (E29): 2017-01		10		10		10	1	mg/kg	-	< 1	-	-
Mercury (Hg)	FR	F5	DIN EN ISO 12846 (E12): 2012-08		0.1		0.1		0.1	0.05	mg/kg	-	< 0.05	-	-
Zinc (Zn)	FR	F5	DIN EN ISO 17294-2 (E29): 2017-01		100		100		100	1	mg/kg	-	9	-	-
Ash melting behaviour (ox. atmo.) 815°C															
Shrinkage start temp SST	FR	F5	DIN EN ISO 21404: 2020-06		11)		11)		11)		°C	-	1030	-	-
Deformation temp DT	FR	F5	DIN EN ISO 21404: 2020-06		≥ 1200		≥ 1100		≥ 1100		°C	-	1490	-	-
Hemisphere temp HT	FR	F5	DIN EN ISO 21404: 2020-06		11)		11)		11)		°C	-	> 1490	-	-
Flow temp FT	FR	F5	DIN EN ISO 21404: 2020-06		11)		11)		11)		°C	-	> 1490	-	-
Special analyses															
Plausibility check	FR											OK	-	-	-

Explanations

LOQ - Limit of quantification

ar - as received

db - dry basis

Lab - Abbreviation of the performing laboratory

Accr. - Abbreviation of the accreditation of the performing laboratory

Comments for results

[1] (qV, gr) gross calorific value at constant volume

[2] (qp, net) net calorific value at constant pressure

The parameters identified by FR have been performed by the laboratory Eurofins Umwelt Ost GmbH (Lindenstraße 11, Gewerbegebiet Freiberg Ost, Bobritzsch-Hilbersdorf). The accreditation code F5 identifies the parameters accredited according to DIN EN ISO/IEC 17025:2018 DAkkS D-PL-14081-01-00 .

Explanations regarding Limits

Analysis performed according to ENplus® ST 1001:2022, second edition 10/2025, Table 4.

[3] 3,15 ≤ L ≤ 40 mm; A maximum of 1% of the pellets may be longer than 40 mm. No pellets longer than 45 mm are allowed.

[4] 6 ± 1 mm, 8 ± 1 mm

[5] The limit value is 10.0 % (w/w).

[6] The required significance of the limit values 0.70/1.20/2.00 can not be represented with the prescribed analytical method.

[7] The limit value is ≥ 98.0 %(w/w).

[8] Bulk: At company gate or when loading big bags or trucks for deliveries to end-users. Bags: ≤ 0,5 At company gate, when filling bags (bagged pellets).

[9] Value to be stated.

[10] qp,net: net calorific value at constant pressure

[11] Ash is produced at 815 °C. All characteristic temperatures listed in ISO 21404 shall be stated in the report.

The presentation of comparative values in the analytical report is a service provided by EUROFINS UMWELT. The cited comparative values (limit, guideline or other allocation values) are partially simplified and do not take into account all comments, ancillary provisions and/or exemptions of the corresponding regulations.