

Compliance confirmation of wood pellet PRODUCTION with ENplus® standards for:

Kurzemes Granulas SIA Kustes dambis 22 LV-3601 Ventspils Latvia Production Facility: Kustes dambis 22 LV-3601 Ventspils Latvia

Scope:

Validation of inspection of the wood pellet production facility in accordance with ENplus® requirements from Handbook Version 3. Potential testing of sample(s) for verification of pellet quality carried out according EN ISO 17225-2.

BEA Institut für Bioenergie GmbH thereafter confirms compliance with ENplus® requirements, of quality class A1 and A2 (6 mm).

Certified Activities:

- ☑ Production
- Large-scale delivery of pellets (from its own production)
- Bagging and trade of bagged pellets (from its own production)
- Storage of pellets (B2C, from its own production)



ENplus® ID:LV002Certificate Nr.:BEA-Cert-ENplus-098First issue Date:29.11.2023Issue Date:29.11.2023Valid until:26.01.2026

For latest validity updates of this certificate see www.bioenergy.co.at.

Vienna, 29.11.2023 Cristipa fuesale	Vieng	a, 29.11.2023
Place / Date / Signature	e A	Place / Date / Signature
Cristina Lucesole M.Sc. Head of certification body	and the second of the second o	DI Niklas Illich Responsible authorised signatory of CB

BEA Institut für Bioenergie GMBH - Accr. inspection body acc. to EN ISO/IEC 17020 | Accr. testing laboratory acc. to EN ISO/IEC 17025

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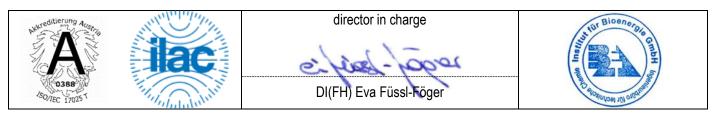
TEST REPORT BEA2023412



Date of report:	2024-01-11				page 1 of 2		
Client:	Kurzemes granulas SIA						
Address:	22 Kustes dambis, LV 3601 Ventspils, LATVIA						
Order:	тарана (1997) Спорта (1997)	Fuel testing according ENplus [®] certification program of wood pellets ENplus [®] ST.1001:2022					
Order date:	2023-10-25		•	samples: 2023-12-2			
Sample(s):	Wood pellets		Testing pe	riod: 2023-12-2	7 – 2024-01-11		
Sample details:	15kg pellets in plastic bag	g class A1; internal sample	e no.: BEA2023412				
BEA2023412				result			
parameter ENplus ®		limit values A1	limit values A2	pellets			
diameter*		6 ± 1, 8 ± 1	6 ± 1, 8 ± 1	6,1			
length (3,15 \leq L \geq 40	mm)*	(3,15 ≤ L ≤ 40)	$(3,15 \le L \le 40)$	14,8± 6,1			
length ($40 \le L \le 45$ m		≤1	≤1	0,1	. ,		
length (> 45 mm)*	,	0	0	0			
share of pellets with a	length < 10 mm^*	-	-	10,3			
	%≤ M ≤ 30%, S > 30%*	-	-	L	-		
moisture content*		≤ 10,0	≤ 10,0	4,8	% in mass (ar)		
ash content*		≤ 0,70	≤ 1,20	0,39			
mechanical durability*		≥ 98,0	≥ 97,5	98,9	. ,		
bulk density*		600 ≤ BD ≤ 750	600 ≤ BD ≤ 750	690			
particle density			-	1,31	0		
coarse fines $(3, 15 \le C)$:PF < 5.6 mm)*	-	-	0,1			
fines content (< 3,15 m		≤1	≤1	-,	% in mass (ar)		
fines content (< 3,15 m		≤ 0,5	≤ 0,5	0,2			
net calorific value qP,net		≥ 16,5	≥ 16,5		MJ/kg (ar)		
net calorific value qP,r		≥4,6	≥ 4,6	5,00			
net calorific value qP,r		-	-		MJ/kg (db)		
net calorific value qP,r		-	-	5,29			
gross calorific value qu		-	-	19,4			
gross calorific value q	-	-	-	5,39			
nitrogen content*		≤0,3	≤ 0,5		% in mass (db)		
sulphur content		≤ 0,04	≤ 0,04	<0,005			
chlorine content		≤ 0,02	≤ 0,02	0,005			
arsenic		≤1	1,2	<0,5			
cadmium		≤ 0,5	≤ 0,5	<0,1			
chromium		≤ 10	≤ 10	<1			
copper		≤ 10	≤ 10	1,2			
lead		≤ 10	≤ 10	<0,5			
mercury		≤ 0,1	≤ 0,1	<0,075	mg/kg (db)		
nickel		≤ 10	≤ 10	Í <1			
zinc		≤ 100	≤ 100	9,6			
shrinking temperature	SST	-	-	930			
deformation temperatu		≥ 1200	≥ 1100	1430	°C		
hemisphere temperat		-	-	>1550			
flow temperature FT		-	-	>1550			

db... dry basis, ar... as received, *... in cooperation with accredited subcontractors and not included in accredited scope of BEA

The test results apply only to the samples investigated. As a rule, they are not the only criteria for assessing the raw material or product in question and its suitability for a specific purpose of application. Test Reports may only be made available to third parties, either free of charge or against payment, if the full wording is given and if the author is expressly named. Unless otherwise indicated, at client's request neither the measurement uncertainty was stated, nor were decision rules agreed. The General Terms and Conditions of BEA Institut für Bioenergie GmbH shall apply as amended.



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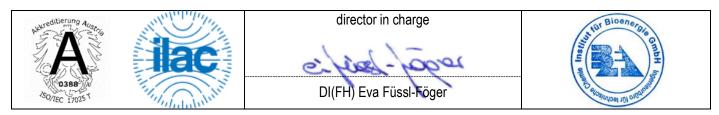
Institut für Bioenergie

Date of report:	2024-01-11			page 2 of 2		
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Address:	22 Kustes dambis, LV 3601 Ventspils, LATVIA					
Order:	Fuel testing according ENplus [®] certification program of wood pellets ENplus [®] ST.1001:2022					
Order date: Sample(s): Sample details:	2023-10-25 Wood pellets 15kg pellets in plastic		Receipt of samples: Testing period: 2	2023-12-27 2023-12-27 – 2024-01-11		
testing methods		standard				
sample preparation diameter and length moisture content ash content mechanical durability fines content < 3,15 mm net calorific value /gros bulk density carbon, hydrogen, nitro chlorine, sulphur conten minor elements ash melting behaviour coarse pellets fines 3,1 particle density	s calorific value gen content nt	ISO 14780:2020 ISO 17829:2015 ISO 18134-2:2017 ISO 18122:2023, performed with proximate an ISO 17831-1:2015 ISO 18846:2016 ISO 18125:2017 ISO 17828:2015 ISO 16948:2015 ISO 16994:2016, quantification according to IS ISO 16968:2015, quantification according to IS ISO 21404:2020, ash preparation at 815°C, of ISO 18846:2016: / ISO 5370:2023 non accred ISO 18847:2017	SO 10304-1:2007 SO 17294-2:2016 xidizing atmosphere			

remarks

Subcontractor received 15,04 kg pellets in labeled bag ENplus A1.

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