

# TEST REPORT

## BEA250991

Date of report: 2026-01-26

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Client: „Kurzemes granulas“ SIA

Address: Kustes dambis 22, Ventspils, 3601, LATVIJA

Order: Fuel testing according ENplus® certification program of wood pellets ENplus® ST.1001:2022

Order date: 2025-11-26

Receipt of samples: 2026-01-16

Sample(s): Wood pellets; "LV 002"

Testing period: 2026-01-16 – 2026-01-23

Sample details: Approx. 2 kg pellets class A1 from bagging line, internal sample no.: BEA250991-1; approx. 2 kg pellets class A2 from production line; internal sample no.: BEA250991-2

BEA250991 parameter ENplus®	limit values A1	limit values A2	result class A1	result class A2	unit
diameter*	6 ± 1, 8 ± 1	6 ± 1, 8 ± 1	6,1	6,1	mm (ar)
length (3,15 ≤ L ≤ 40 mm)*	(3,15 ≤ L ≤ 40)	(3,15 ≤ L ≤ 40)	11,6 ± 4,6	9,9 ± 3,8	mm (ar)
length (40 < L ≤ 45 mm)*	≤ 1	≤ 1	0,0	0,0	% in mass (ar)
length (> 45 mm)*	0	0	0	0	piece(s)
share of pellets with a length < 10mm*	-	-	24,7	36,2	% in mass (ar)
category L < 20%, 20% ≤ M ≤ 30%, S > 30%*	-	-	M	S	-
moisture content*	≤ 10,0	≤ 10,0	5,7	8,6	% in mass (ar)
ash content*	≤ 0,70	≤ 1,20	0,30	0,83	% in mass (db)
mechanical durability*	≥ 98,0	≥ 97,5	98,8	98,4	% in mass (ar)
bulk density*	600 ≤ BD ≤ 750	600 ≤ BD ≤ 750	700	700	kg/m <sup>3</sup> (ar)
particle density*	-	-	1,31	1,29	g/cm <sup>3</sup> (ar)
coarse fines (3,15 ≤ CPF < 5,6 mm)*	-	-	<0,1	0,2	% in mass (ar)
fines content (< 3,15 mm), bulk*	≤ 1	≤ 1	-	0,2	% in mass (ar)
fines content (< 3,15 mm), bags*	≤ 0,5	≤ 0,5	0,2	-	% in mass (ar)
net calorific value q <sub>P,net</sub> *	≥ 16,5	≥ 16,5	17,8	17,1	MJ/kg (ar)
net calorific value q <sub>P,net</sub> *	≥ 4,6	≥ 4,6	4,9	4,8	kWh/kg (ar)
net calorific value q <sub>P,net</sub> *	-	-	19,0	18,9	MJ/kg (db)
net calorific value q <sub>P,net</sub> *	-	-	5,3	5,3	kWh/kg (db)
gross calorific value q <sub>V,gr</sub> *	-	-	19,2	18,5	MJ/kg (ar)
gross calorific value q <sub>V,gr</sub> *	-	-	5,3	5,1	kWh/kg (ar)
nitrogen content	≤ 0,3	≤ 0,5	0,16	0,10	% in mass (db)
sulphur content	≤ 0,04	≤ 0,04	<0,005	0,007	% in mass (db)
chlorine content	≤ 0,02	≤ 0,02	<0,005	<0,005	% in mass (db)
arsenic	≤ 1	≤ 1	<0,5	<0,5	mg/kg (db)
cadmium	≤ 0,5	≤ 0,5	<0,1	0,12	mg/kg (db)
chromium	≤ 10	≤ 10	<1	<1	mg/kg (db)
copper	≤ 10	≤ 10	<1	1,2	mg/kg (db)
lead	≤ 10	≤ 10	<0,5	<0,5	mg/kg (db)
mercury	≤ 0,1	≤ 0,1	<0,075	<0,075	mg/kg (db)
nickel	≤ 10	≤ 10	<1	<1	mg/kg (db)
zinc	≤ 100	≤ 100	9,5	17	mg/kg (db)
shrinking temperature SST	-	-	920	940	°C
deformation temperature DT	≥ 1200	≥ 1100	1460	1240	°C
hemisphere temperature HT	-	-	>1500	1280	°C
flow temperature FT	-	-	>1500	1300	°C

db... dry basis, ar... as received; \*... in cooperation with accredited subcontractor within his scope

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.

 	director in charge 	
	Dr. Viktoria Horvath	



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### testing methods

### standard

diameter and length	ISO 17829:2015
moisture content	ISO 18134-2:2017
ash content	ISO 18122:2022
mechanical durability	ISO 17831-1:2015
finer content < 3,15 mm	ISO 5370:2023
net calorific value /gross calorific value	ISO 18125:2017
bulk density	ISO 17828:2015
carbon, hydrogen, nitrogen content	ISO 16948:2015
chlorine, sulphur content	ISO 16994:2016, quantification according to ISO 10304-1:2016
minor elements	ISO 16968:2015, quantification according to ISO 17294-2:2023
ash melting behaviour	ISO 21404:2020, ash preparation at 815°C, oxidizing atmosphere
coarse pellets fines 3,15 < CPF < 5,6 mm	ISO 5370:2023
particle density	ISO 18847:2017

### remarks

Subcontractor received on 2025-12-18 15,05 kg 6 mm pellets ENplus® A1 from bagging line internal sample no.: BEA250991-1 and 13,8 kg 6 mm pellets ENplus® A2 from production line, internal sample no.: BEA250991-2

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