TEST REPORT
BEA260483

Institut für Bioenergie

Date of report: 2026-04-24

Client: Energija narave d.o.o. (attn. Mrs. Barbara Šinkovec)

Address: Poljane nad Škofjo Loko 90, 4223, Poljane nad Škofjo Loko, Slovenia

Order: Fuel testing according EN*plus*® certification program of wood pellets EN*plus*® ST.1001:2022

Order date: 2026-04-02 **Receipt of samples:** 2026-04-16

Sample(s): Wood pellets; "SI 014" **Testing period:** 2026-04-16 – 2026-04-24

Sample details: 15 kg pellets in bag class A1 from bagging line; internal sample no.: BEA260483

BEA260483 parameter EN*plus* ®	limit values A1	limit values A2	**result class A1**	unit
diameter	6 ± 1, 8 ± 1	6 ± 1, 8 ± 1	**6,2**	mm (ar)
length (3,15 ≤ L ≤ 40 mm)	(3,15 ≤ L ≤ 40)	(3,15 ≤ L ≤ 40)	**16,0 ± 4,9**	mm (ar)
length (40 < L ≤ 45 mm)	≤ 1	≤ 1	**0**	% in mass (ar)
length (> 45 mm)	0	0	**0**	piece(s)
share of pellets with a length < 10mm	-	-	**5,7**	% in mass (ar)
category L < 20%, 20%≤ M ≤ 30%, S > 30%	-	-	**L**	-
amount of pellets for length determination	≥ 100	≥ 100	**1.237**	piece(s)
moisture content	≤ 10,0	≤ 10,0	**7,4**	% in mass (ar)
ash content	≤ 0,70	≤ 1,20	**0,56**	% in mass (db)
mechanical durability	≥ 98,0	≥ 97,5	**98,2**	% in mass (ar)
bulk density	600 ≤ BD ≤ 750	600 ≤ BD ≤ 750	**670**	kg/m³ (ar)
particle density	-	-	**1,33**	g/cm³ (ar)
coarse fines (3,15 ≤ CPF < 5,6 mm)	-	-	**0,2**	% in mass (ar)
fines content (< 3,15 mm), bulk	≤ 1	≤ 1	**-**	% in mass (ar)
fines content (< 3,15 mm), bags	≤ 0,5	≤ 0,5	**0,2**	% in mass (ar)
net calorific value $q_{P,net}$	≥ 16,5	≥ 16,5	**17,3**	MJ/kg (ar)
net calorific value $q_{P,net}$	≥ 4,6	≥ 4,6	**4,8**	kWh/kg (ar)
net calorific value $q_{P,net}$	-	-	**18,9**	MJ/kg (db)
net calorific value $q_{P,net}$	-	-	**5,3**	kWh/kg (db)
gross calorific value $q_{V,gr}$	-	-	**18,8**	MJ/kg (ar)
gross calorific value $q_{V,gr}$	-	-	**5,2**	kWh/kg (ar)
nitrogen content	≤ 0,3	≤ 0,5	**0,09**	% in mass (db)
sulphur content	≤ 0,04	≤ 0,04	**0,007**	% in mass (db)
chlorine content	≤ 0,02	≤ 0,02	**0,007**	% in mass (db)
arsenic	≤ 1	≤ 1	**<0,5**	mg/kg (db)
cadmium	≤ 0,5	≤ 0,5	**0,15**	mg/kg (db)
chromium	≤ 10	≤ 10	**<1**	mg/kg (db)
copper	≤ 10	≤ 10	**<1**	mg/kg (db)
lead	≤ 10	≤ 10	**<0,5**	mg/kg (db)
mercury	≤ 0,1	≤ 0,1	**<0,075**	mg/kg (db)
nickel	≤ 10	≤ 10	**<1**	mg/kg (db)
zinc	≤ 100	≤ 100	**10**	mg/kg (db)
shrinking temperature SST	-	-	**980**	°C
deformation temperature DT	≥ 1200	≥ 1100	**1390**	°C
hemisphere temperature HT	-	-	**>1500**	°C
flow temperature FT	-	-	**>1500**	°C

db… dry basis, ar… as received

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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director in charge

Angelo Gaccione

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Institut für Bioenergie GmbH Ingenieurbüro für technische Chemie

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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
fines 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

none

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