

TEST REPORT

BEA260714

Date of report:	2026-08-05	page 1 of 2
Client:	Ten Damme B.V.	
Address:	Bolwerk 9, 7141 JM, Groenlo, THE NETHERLANDS	
Order:	Fuel testing according ENplus® certification program of wood pellets ENplus® ST.1001:2022	
Order date:	2026-07-13	Receipt of samples: 2026-07-21
Sample(s):	Wood pellets; "NL 004"	Testing period: 2026-07-21 – 2026-08-04
Sample details:	15 kg pellets in bag class A1 from bagging line; internal sample no.: BEA260714	

parameter ENplus®	limit values A1	limit values A2	result class A1	unit
diameter	6 ± 1, 8 ± 1	6 ± 1, 8 ± 1	6,1	mm (ar)
length (3,15 ≤ L ≤ 40 mm)	(3,15 ≤ L ≤ 40)	(3,15 ≤ L ≤ 40)	14,9 ± 6,4	mm (ar)
length (40 < L ≤ 45 mm)	≤ 1	≤ 1	0,2	% in mass (ar)
length (> 45 mm)	0	0	0	piece(s)
share of pellets with a length < 10mm	-	-	12,0	% in mass (ar)
category L < 20%, 20% ≤ M ≤ 30%, S > 30%	-	-	L	-
amount of pellets for length determination	≥ 100	≥ 100	1 431	piece(s)
moisture content	≤ 10,0	≤ 10,0	6,6	% in mass (ar)
ash content	≤ 0,70	≤ 1,20	0,47	% in mass (db)
mechanical durability	≥ 98,0	≥ 97,5	98,4	% in mass (ar)
bulk density	600 ≤ BD ≤ 750	600 ≤ BD ≤ 750	660	kg/m³ (ar)
particle density	-	-	1,32	g/cm³ (ar)
coarse fines (3,15 ≤ CPF < 5,6 mm)	-	-	0,6	% 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 qP,net	≥ 16,5	≥ 16,5	17,5	MJ/kg (ar)
net calorific value qP,net	≥ 4,6	≥ 4,6	4,9	kWh/kg (ar)
net calorific value qP,net	-	-	18,9	MJ/kg (db)
net calorific value qP,net	-	-	5,3	kWh/kg (db)
gross calorific value qV,gr	-	-	18,9	MJ/kg (ar)
gross calorific value qV,gr	-	-	5,3	kWh/kg (ar)
nitrogen content*	≤ 0,3	≤ 0,5	0,05	% in mass (db)
sulphur content	≤ 0,04	≤ 0,04	0,007	% in mass (db)
chlorine content	≤ 0,02	≤ 0,02	0,005	% in mass (db)
arsenic	≤ 1	≤ 1	<0,5	mg/kg (db)
cadmium	≤ 0,5	≤ 0,5	0,11	mg/kg (db)
chromium	≤ 10	≤ 10	<1	mg/kg (db)
copper	≤ 10	≤ 10	6,1	mg/kg (db)
lead	≤ 10	≤ 10	1,0	mg/kg (db)
mercury	≤ 0,1	≤ 0,1	<0,075	mg/kg (db)
nickel	≤ 10	≤ 10	<1	mg/kg (db)
zinc	≤ 100	≤ 100	11	mg/kg (db)
shrinking temperature SST	-	-	1130	°C
deformation temperature DT	≥ 1200	≥ 1100	1440	°C
hemisphere temperature HT	-	-	>1500	°C
flow temperature FT	-	-	>1500	°C

db... dry basis, ar... as received; *...performed by non accredited subcontractor

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 17829:2024
moisture content	ISO 18134-2:2024
ash content	ISO 18122:2022
mechanical durability	ISO 17831-1:2025
finer content < 3,15 mm	ISO 5370:2023
net calorific value /gross calorific value	ISO 18125:2017
bulk density	ISO 17828:2025
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 18847:2024

remarks

none

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