TEST REPORT BEA250284



Date of report: 2025-02-17 page 1 of 2

Client: Control Union Certifications Germany GmbH Address: Bornitzstraße 73-75, 10365 Berlin, GERMANY

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

Order date: 2024-12-23; PRJ:853789 Receipt of samples: 2025-02-04

Sample(s): 6 mm wood pellets; Testing period: 2025-02-05 - 2025-02-14

Sample details: 15 kg pellets in plastic bag class A1 : internal sample no.: BEA250284

Sample details:	15 kg pellets in p	plastic dag class AT	*	; internal sample no.: BEA250284	
BEA250284				result	
parameter EN <i>plus</i> ®		limit values A1	lim it values A2	2024-UN	unit
diameter		6 ± 1, 8 ± 1	6 ± 1, 8 ± 1	6,1	mm (ar)
length $(3,15 \le L \ge 40)$	mm)	$(3,15 \le L \le 40)$	$(3,15 \le L \le 40)$	13,6 ± 5,5	mm (ar)
length (40 ≤ L ≤ 45 m	m)	≤1	≤1	0,1	%in m ass (ar)
length (> 45 mm)		0	0	0,0	piece(s)
amount of pellets for le	ength	≥ 100	≥ 100	1 414	piece(s)
moisture content		≤ 10,0	≤ 10,0	6,3	%in m ass (ar)
ash content		≤ 0,70	≤ 1,20	0,32	%in m ass (db)
mechanical durability		≥ 98,0	≥ 97,5	98,0	%in m ass (ar)
bulk density		$600 \le BD \le 750$	$600 \le BD \le 750$	670	kg/m³ (ar)
particle density		-	-	1,29	g/cm³ (ar)
coarse fines (3,15 ≤ C	PF < 5,6	-	-	0,9	%in mass (ar)
fines content (< 3,15 m	nm), bulk	≤1	≤1	-	%in mass (ar)
fines content (< 3,15 m	nm), bags	≤ 0,5	≤ 0,5	0,4	%in m ass (ar)
net calorific value qP,ne	et	≥ 16,5	≥ 16,5	18,3	MJ/kg (ar)
net calorific value qP,ne	et	≥ 4,6	≥ 4,6	5,10	kWh/kg (ar)
net calorific value qP,ne	et	-	-	19,7	MJ/kg (db)
net calorific value qP,ne	et	-	-	5,48	kWh/kg (db)
gross calorific value qu	V,gr	-	-	19,9	MJ/kg (ar)
gross calorific value q	V,gr	-	-	5,52	kWh/kg (ar)
nitrogen content		≤ 0,3	≤ 0,5	0,09	
sulphur content		≤ 0,04	≤ 0,04	<0,005	%in m ass (db)
chlorine content		≤ 0,02	≤ 0,02	0,005	%in m ass (db)
arsenic		≤1	≤1	<0,5	mg/kg (db)
cadmium		≤ 0,5	≤ 0,5	0,23	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	8,9	mg/kg (db)
shrinking temperature	SST	-	-	1080	°C
deformation temperate	ire DT	≥ 1200	≥ 1100	1450	°C
hemisphere temperat	ure HT	-	-	>1550	°C
flow tem perature FT		-	-	>1550	°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.









