Water & Life Lab
ANALYTICAL LABORATORIES

GROUPE CARSO

Lab Test Report n°: **26WL0122648** of **26/10/2026**

Customer.
ENAMA Servizi S.r.l.
Corso Vittorio Emanuele, 111
84123 Salerno SA

Receipt Date in Lab:	02/10/2026
Test Beginning Date:	02/10/2026
Test Result Date:	26/10/2026

Sample's data provided by the client

Matrix:	Solid biofuels
Description:	Wood pellet 6 mm - PT282N-A1
Sample Weight:	15Kg
Supplier:	Rivestimenti Legno S.r.l.
Lot.No:	AFTER PACKAGING
Origin:	1.2.1

Sampling data provided by the client

Effected By:	customer
Technician:	ALESSANDRA TRUFFINI
Sampling Date:	30/09/2026
Site:	Viale dell'Industria 3 - 38057 Pergine Valsugana (TN)

Test *Method*	**Result**	**Uncertainty**	**U.M.**	**LOQ**	**Class A1**	**Class A2**	**Class B**
o Nitrogen *UNI EN ISO16948 2015*	**< 0,1**		w-% d.m.	0,1			1,0
o Chlorine *UNI EN ISO 16994:2017 Met A + UNI EN ISO 10304-1:2009*	**< 0,01**		w-% d.m.	0,01			0,03
o Sulphur *UNI EN ISO 16994:2017 Met A + UNI EN ISO 10304-1:2009*	**< 0,01**		w-% d.m.	0,01			0,05
Diameter *UNI EN ISO 14780:2019 + UNI EN ISO 17829 : 2016*	**6,0**	±0,3	mm		5÷7	5÷7	5÷7
Mean length *UNI EN ISO 14780:2019 + UNI EN ISO 17829 : 2016*	**15,0**	±1,9	mm	3,1	3,15÷40	3,15÷40	3,15÷40
Pellets with length <= 10 mm *UNI EN ISO 14780:2019 + UNI EN ISO 17829 : 2016*	**8,4**	±1,1	w-%	0,1			
Pellets with length > 40mm *UNI EN ISO 14780:2019 + UNI EN ISO 17829 : 2016*	**< 0,1**		w-%	0,1	1	1	1
Pellets with length > 45 mm *UNI EN ISO 14780:2019 + UNI EN ISO 17829 : 2016*	**0**		Number	0	0	0	0
Moisture *UNI EN ISO 14780:2019 + UNI EN ISO 18134-1:2022*	**6,6**	±0,3	w-%	1,0	10,0	10,0	10,0
Ash at 550° *UNI EN ISO 14780:2019 + UNI EN ISO 18122 : 2023*	**0,27**	±0,03	w-% d.m.	0,10	0,70	1,20	2,00
Mechanical durability *UNI EN ISO 14780:2019 + UNI EN ISO 17831-1:2025*	**98,7**	±0,3	w-%		>= 98,0	>= 97,5	>= 96,5
Fines (< 3,15 mm) (bags) (as received) *ISO 5370:2023*	**0,2**	±0,1	w-%	0,1	0,5	0,5	
Coarse pellet fines *ISO 5370:2023*	**0,3**	±0,1	w-%	0,1			

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Via Enrico Mattei n°37
24060 - Entratico (BG) - ITALY
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info@waterlifelab.it
www.waterlifelab.it

Capitale sociale 50.000 € i.v.
C.F. / P.IVA 01855020168
r.e.a. n. 242620

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Test *Method*	Result	Uncertainty	U.M.	LOQ	Class A1	Class A2	Class B
o Net calorific value *ISO 18125:2018*	**4,8**	±0,1	kWh/kg	1,0			>= 4,6
o higher calorific value *ISO 18125:2018*	**5,1**	±0,1	kWh/kg	1,0			
Particle density *UNI EN ISO 14780:2019 + ISO 18847:2024*	**1,31**	±0,05	g/cm3	0,10			
Bulk density *UNI EN ISO 14780:2019 + UNI EN ISO 17828:2025*	**730**	±30	kg/m3	10	600÷750	600÷750	600÷750
* Additives (data provided by the customer)	**absent**		% w/w				
o Fusibility of the ashes (pre-ashing temperature 815°C) *NF EN ISO 21404:2020*							
o Shrinkage temperature *NF EN ISO 21404:2020*	**1130**	±48	°C				
o Deformation temperature *NF EN ISO 21404:2020*	**1420**	±48	°C		>= 1200	>= 1100	>= 1100
o Flow temperature *NF EN ISO 21404:2020*	**1460**	±67	°C				
o Hemisphere temperature *NF EN ISO 21404:2020*	**1450**	±55	°C				
Arsenic *UNI EN ISO 14780:2019 + UNI EN ISO 16968:2015 + UNI EN ISO 22036:2024*	**0,4**	±0,1	mg/kg d.m.	0,4	1	1	1
Cadmium *UNI EN ISO 14780:2019 + UNI EN ISO 16968:2015 + UNI EN ISO 22036:2024*	**< 0,2**		mg/kg d.m.	0,2	0,5	0,5	0,5
Chromium *UNI EN ISO 14780:2019 + UNI EN ISO 16968:2015 + UNI EN ISO 22036:2024*	**< 0,2**		mg/kg d.m.	0,2	10	10	10
Mercury *UNI EN ISO 14780:2019 + UNI EN ISO 16968:2015 + UNI EN ISO 22036:2024*	**< 0,04**		mg/kg d.m.	0,04	0,1	0,1	0,1
Nickel *UNI EN ISO 14780:2019 + UNI EN ISO 16968:2015 + UNI EN ISO 22036:2024*	**< 0,2**		mg/kg d.m.	0,2	10	10	10
Lead *UNI EN ISO 14780:2019 + UNI EN ISO 16968:2015 + UNI EN ISO 22036:2024*	**0,2**	±0,1	mg/kg d.m.	0,2	10	10	10
Copper *UNI EN ISO 14780:2019 + UNI EN ISO 16968:2015 + UNI EN ISO 22036:2024*	**0,6**	±0,2	mg/kg d.m.	0,4	10	10	10
Zinc *UNI EN ISO 14780:2019 + UNI EN ISO 16968:2015 + UNI EN ISO 22036:2024*	**8,5**	±1,4	mg/kg d.m.	2,0	100	100	100

Limit: Limits ISO 17225-2 (6mm)

LOQ: limit of quantification; U.M.: unit of measure

>lim: the parameters indicated by the symbol on the side are out of limits.

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(*) : The starred Tests are not ACCREDIA qualified

(º): The analyzes are performed by an external laboratory

Determinations of Nitrogen, Chlorine and Sulphur were carried out by an COFRAC accredited laboratory with number 1-0273.

The container used for the determination of the bulk density complies with the requirements of point 5.1.3 of the method.

The result of Pellet length is the average of 50 measurements and the standard deviation calculated is 5.25.
The result of Pellet diameter is the average of 10 measurements and the standard deviation calculated is 0.03.

For the division of the sample, paragraph 8.6 of the UNI EN ISO 14780: 2019 standard has been applied.

The Mass of the Test portion for the determination of fines is 7911 g.

Determinations of Net calorific value and Gross calorific value were carried out by an COFRAC accredited laboratory with number 1-0273.

The digestion of the sample intended for metal analysis has been performed with hydrogen peroxide and nitric acid.
The determination of the metals has been performed in ICP-OES.

Notes:

Uncertainty is expressed in the units of measurement of the parameter to which they refer. The coverage factor is k = 2 with a 95% probability range.
For microbiological analysis,espressed on all matrix except waters, combined standard uncertainty is estimated according ISO 19036 as intralaboratory reproducibility standard deviation.
For qualitative microbiological analysis , the expression of the result as "detected/not detected'" means presence or absence of confirmed colony of the microorganism.

Water & Life Lab S.r.l. is registered, to the Lombardy Region Register of the laboratories that are authorized to perform analysis in the field of the self-control procedures of food industries with the progressive number 030016301004 (based on the General Health Management act number 893 of February 2nd 2011).
The Laboratory does not consider the rounding of the data and the uncertainty of measurement in comparison with the limits that may be applied in the Test Report.
The results reported in this test report refer to the sample as received, the laboratory declines all responsibility for the sample data provided by the client.

The results reported on this lab test report are exclusively referred to the tested sample.
The end date of the analyses reported at the top of the test report includes the verification and control activities of the analytical data detected
This Lab Test Report can be reproducted fully only. The partial reproduction of this Lab Test Report is admitted only after the written authorization of the Water & Life Lab S.r.l. laboratory responsable.

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Laboratory Manager
P.I. Enio Belotti

Scientific Direction
dr. Angelo Carlessi

Order of Chemists and Physicists of
Bergamo Chemist Section.A
registration n° 146

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End of the test report n° **26WL0122648**

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