



## ANALYTICAL REPORT

Sample information		Laboratory information	
Vessel / Object:	I	Job Number:	674-26-00147
Sampling location:	Submitted sample	Sample ID:	1809B
Job type:	Analysis on submitted sample	Submitted sample:	Yes
Product description:	Wood pellets	Sample submission date:	10 April 2026
Client:	.....	Submitted sample weight:	Approx. 20 kg
Client reference:	I2	Sampling date:	N.A.
Remarks:	N.A.	Test date:	10 to 22 April 2026
		Version:	1

Method	Test	Result		Units
		as received	dry basis	
ISO 18134-2:2024	Total moisture	6,0		%
ISO 18122:2022	Ash	0,6	0,7	%
ISO 16994:2016	Sulphur	0,05	0,05	%
ISO 16994:2016	Chlorine *	0,025	0,027	%
ISO 16948:2015	Nitrogen	0,19	0,20	%
ISO 18125:2017	Gross calorific value	18,5	19,7	MJ/kg
		5,1	5,5	kWh/kg
ISO 18125:2017	Net calorific value p	17,0	18,2	MJ/kg
		4,7	5,1	kWh/kg

\* Results obtained by a subcontracted ISO 17025 accredited laboratory, scope 5.1.0388

### Particle size distribution of desintegrated pellet

Method	Test	Result			Units
		Mass percentage	Cumulative oversize	Cumulative undersize	
	3,15 mm	2,60	2,60	97,40	%
	2,0 mm	4,25	6,84	93,16	%
	1 mm	33,02	39,86	60,14	%
ISO 17830:2024	0,5 mm	31,31	71,17	28,83	%
	0,1 mm	24,71	95,88	4,12	%
	<0,1 mm	4,12			%

Method	Test	Result	Units
ISO 17831-1:2025	Mechanical durability	98,3	%
ISO 17828:2025	Bulk density (ar)	670	kg/m <sup>3</sup>
ISO 5370:2023	Fines (<3,15 mm)	0,2	%
ISO 17829:2025	Length ≥ 50 mm	2	Units
ISO 17829:2025	Length ≥ 40 mm	0,8	%
ISO 17829:2025	Longest pellet	53,3	mm
ISO 17829:2025	Length ≤ 10 mm	13,4	%
ISO 17829:2025	Diameter	6,0	mm

Method	Test	Result *	Units
ISO 21404:2020	Ash Melting Behaviour - oxidizing atmosphere - ashing temperature 815°C	Shrinking temperature (SST)	1190
		Deformation temperature (DT)	1300
		Hemisphere temperature (HT)	>1500
		Flow temperature (FT)	>1500

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Method	Test	Result (dry basis) *	Units
ISO 16968:2015	Arsenic	<0,5	mg/kg
ISO 16968:2015	Cadmium	<0,1	mg/kg
ISO 16968:2015	Chromium	1,3	mg/kg
ISO 16968:2015	Copper	1,4	mg/kg
ISO 16968:2015	Lead	<0,5	mg/kg
ISO 16968:2015	Mercury	<0,075	mg/kg
ISO 16968:2015	Nickel	<1	mg/kg
ISO 16968:2015	Zinc	6,7	mg/kg

\* Results obtained by a subcontracted ISO 17025 accredited laboratory, scope 5.1.0388

Date of report: 23 April 2026  
Name: Marco Costa  
Signature: MM Laboratory Manager



The analytical results were obtained using the above submitted sample as received and designated by the client. This is for reference only as we cannot guarantee the integrity of the submitted sample.

Testing Laboratory (AmSpec Portugal, Unipessoal Lda) is not responsible for the information provided by the customer, sample source or the label (vessel, object, job type, product grade, date sampled, client reference) or with the sampling (under ISO 2859).

Standard and/or in accordance with the national standards or regulations.

This is a "simplified report", any underlying raw data or previous parameters (applicable to the evaluation of test results) can be made available upon first request. The results in this report relate only to the items listed.

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