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Registered: Chamber of Commerce Ghent no. 179403



Our ref.-Nr. : 21001372/02 Report date : 27/12/2021

## REPORT OF ANALYSIS

Page 1/2

Type : Received sample Sample reference : Icare - 7A302

Sample material : Wood pellets ENplus A1

Order number : n/a

**Date received** : 15/12/2021

Received from : ENplus® c/o Bioenergy Europe

Preparation : As per ISO 14780 (a)

Analyses : Results were found to be as follows:

Parameter	Method	Unit	Specifications	As received	Dry base
EN <i>plus</i> required parameters					
Total Moisture <sup>(a)</sup>	ISO 18134	%	≤ 10	10,3	***
Ash <sup>(a)</sup>	ISO 18122	%	≤ 0,7	***	0,31
Sulphur <sup>(a)</sup>	ISO 16994	%	≤ 0,04	***	0,01
Net Cal. Value $(q_{p,net})^{(a)}$	ISO 18125	kWh/kg	≥ 4,6	4,712	***
Nitrogen (N) <sup>(a)</sup>	ISO 16948	%	≤ 0,3	***	0,07
Chlorine (CI)	ISO 16994	%	≤ 0,02	***	0,0015
Bulk density <sup>(a)</sup>	ISO 17828	kg/m <sup>3</sup>	600 ≤ BD ≤ 750	650	***
Mechanical durablilty (a)	ISO 17831-1	%	≥ 98,0	99,6	***
Diameter	ISO 17829	mm	6±1 or 8±1	6,1	***
Lenght	ISO 17829 🤻	mm	3,15 < L ≤ 40	17,1	***
Fines < 3,15 mm round <sup>(a)</sup>	ISO 18846	%	bulk pellets ≤ 1,0	***	***
			bagged pellets ≤ 0,5	0,1	***
Additional parameters					
<mark>Gr</mark> oss Cal. Value (q <sub>v,gr</sub> ) <sup>(a)</sup>	ISO 18125	kJ/kg	***	***	20.415
		kcal/kg	***	***	4.876
		kWh/kg	***	***	5,671
Carbon (C) <sup>(a)</sup>	ISO 16948	%	***	***	50,7
Hydrogen (H) <sup>(a)</sup>	ISO 16948	%	***	***	6,01
Oxygen (O)	By difference	%	***	***	42,90
Stowage factor	Calculated	m³/t	***	1,54	***

<sup>&</sup>lt;sup>(a)</sup> Performed by Inspectorate Ghent under accreditation certificate Belac 393-TEST

EN ISO 9001:2015 EN ISO/IEC 17025:2017 EN*plus*® Certified by TÜV NORD CERT GmbH; Certificate Registration No. 44 100 160 145 Inspectorate Ghent NV - Accredited by BELAC; Certificate Registration No. 393-TEST Certification; listed body for the testing of wood pellets Certificate(s) can be provided upon request



The tests were carried out on samples supplied by the client and the results reported refer only to the samples as delivered.

The tests relate only to the items tested

Laboratory testing is carried out in approved Inspectorate Group or approved subcontract laboratories

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Our ref.-Nr. : 21001372/02 Report date : 27/12/2021

## REPORT OF ANALYSIS

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Type : Received sample Sample reference : Icare - 7A302

Sample material : Wood pellets DINplus

Order number : n/a

**Date received** : 15/12/2021

Received from : ENplus® c/o Bioenergy Europe

**Preparation** : As per ISO 14780 <sup>(a)</sup>

Analyses : Results were found to be as follows:

AFT IN OXIDIZING ATMOSPHERE (ISO 21404			
- Shrinkage temperature (SST)			1111
- Deformation temperature (DT)	°C	≥ 1200	1393
- Hemisphere temperature (HT)		0	1439
- Flow temperature (FT)		X/Y	1446

(1) Analysis performed by Bureau Veritas Estonia under ISO 17025 accreditation, certificate L029



For and on behalf of Inspectorate Ghent nv Sylvie Rasselle / Véronique Van Laere Solid Fuels Business Manager / Lab Manager

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## PHOTOS OF THE SAMPLE

Type : Received sample Sample reference : Icare - 7A302

Sample material : Wood pellets DINplus

Order number : n/a

**Date received** : 15/12/2021

Received from : ENplus® c/o Bioenergy Europe







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