

Our ref.-Nr. : 21001372/06
Report date : 28/12/2021

REPORT OF ANALYSIS

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Type : Received sample
Sample reference : MM Royal Pellets - AT350
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
ENplus required parameters					
Total Moisture ^(a)	ISO 18134	%	≤ 10	9,2	***
Ash ^(a)	ISO 18122	%	≤ 0,7	***	0,43
Sulphur ^(a)	ISO 16994	%	≤ 0,04	***	0,01
Net Cal. Value (q _{p,net}) ^(a)	ISO 18125	kWh/kg	≥ 4,6	4,734	***
Nitrogen (N) ^(a)	ISO 16948	%	≤ 0,3	***	0,08
Chlorine (Cl)	ISO 16994	%	≤ 0,02	***	0,0011
Bulk density ^(a)	ISO 17828	kg/m ³	600 ≤ BD ≤ 750	630	***
Mechanical durability ^(a)	ISO 17831-1	%	≥ 98,0	99,4	***
Diameter	ISO 17829	mm	6±1 or 8±1	6,2	***
Length	ISO 17829	mm	3,15 < L ≤ 40	14,0	***
Fines < 3,15 mm round ^(a)	ISO 18846	%	bulk pellets ≤ 1,0	***	***
			bagged pellets ≤ 0,5	0,2	***
Additional parameters					
Gross Cal. Value (q _{v,gr}) ^(a)	ISO 18125	kJ/kg	***	***	20.243
		kcal/kg	***	***	4.835
		kWh/kg	***	***	5,623
Carbon (C) ^(a)	ISO 16948	%	***	***	50,5
Hydrogen (H) ^(a)	ISO 16948	%	***	***	6,03
Oxygen (O)	By difference	%	***	***	42,95
Stowage factor	Calculated	m ³ /t	***	1,59	***

^(a) Performed by Inspectorate Ghent under accreditation certificate Belac 393-TEST

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AFT IN OXIDIZING ATMOSPHERE (ISO 21404) ⁽¹⁾			
- Shrinkage temperature (SST)			1114
- Deformation temperature (DT)	°C	≥ 1200	1399
- Hemisphere temperature (HT)			1461
- Flow temperature (FT)			1470

⁽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

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