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Analytical Report

Control Union Certifications Germany GmbH

Attn: . .

Dorotheastrasse 30 D-10318 Berlin Germany

Reportnr. 1104386 version 1

Product recognized as : Hout/Wood/Bois/Holz/Madera

Product Specification : Woodpellets

Reference

AWB / BarCode 9110018027 Packing Plastic, ambient

: BIS Sample Type

Disponent Number :

Sampling Date : 24-Aug-2020 Samplesize (kg) : 15,199 Sealed / Seal Code : No /

Sample Arrival Date: 04-Sep-2020 18:59 ReportDate Version: 10-Sep-2020 14:57

Composition Determination							
Parameter	Result (as received)	Re (on dry)	(as det)	Result (dry ash free	e)		
Total Moisture	6,74	23/			%		0
Moisture Airdry		y	7,96		%	Q	R
Ash	0,52	0,55	0,51	152	%	Q	R
Volatile matter incl. moisture.			85,32		%	Q	R
Volatile matter Fixed Carbon	78,38 14,36	84,05 15,40	77,36	84,51	%	IXA	1.
Gross Calorific Value	4529,2	4856,6	4470,1	4883,5	kcal/kg	Q	R
Nett Calorific Value (cV)	18,96 8152,6 4223,6 17,68 7602,5 4,9	20,33 8741,8	18,72 8046,2	20,45 8790,4	GJ/mt B.T.U.'s/Lb kcal/kg GJ/mt B.T.U.'s/Lb kWh/kg	Q	
Nett Calorific Value (cP) Emissionfactor CO2 (cV) Emissionfactor CO2 (cP)	17,61 99,32 99,74				GJ/mt t CO2/TJ t CO2/TJ	Q	¥
Hydrogen	5,45	5,84	6,27	5,88	%	Q	R
Carbon	47,90	51,36	47,27	51,64	%	Q	R
Nitrogen.	< 0,05	< 0,05	< 0,05	< 0,05	%	Q	R
S. (Sulfer)	< 0,010	< 0,010	< 0,010	< 0,010) %	Q	R
Oxygen (by difference)		11	1/ /	42,470) %		
Preparation Common							

Result **Parameter** Result Result (as received) (on dry) (as det)

Preparation sample B-wood preparation according NEN EN 14780 and NEN EN Q R

15443

Composition Determination Common

Diameter pellets (n=25)

AFT. (oxid) DT

Length of pellets

Parameter Result

Result Result (as received) (on dry) (as det)

1210 6,1 14,1

gr. C mm mm

R R Q Q R

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Demanded 04-Sep-2020 by Control Union Certifications Germany GmbH Analyses according to annex

Drs. ing. H. Janssens Director TLR International Laboratories



ABN Amro Bank Rotterdam; Accountno. 42.60.49.411. BTW nr. / VAT no.: NL - 0043.90.660.B01

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Findings are based on the sample as submitted. TLR does not assume responsibility for sampling, selection, representativity and identifications such as codes, markings or product names. Details regarding methodology and measuring uncertainty will be provided upon request. Contact info@ttr.nl.

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		0,3	%		R
Result (as received)	Result (on dry)	Result (as det)			
0,057	0,061	0,056	mg/kg	Q	R
0,09	0,10	0,09	mg/kg	Q	. R
< 0,040	< 0,040	< 0,040	mg/kg	Q	R
< 0,020	< 0,020	< 0,020	mg/kg	/ Q	R
< 3,0	< 3,0	< 3,0	mg/kg	Q	R
0,007	0,008	0,007	%	Q	R
< 5,0	< 5,0	< 5,0	mg/kg		R
< 5,0	< 5,0	< 5,0	mg/kg	A CALL	R
7,3	7,8	7,2	mg/kg		R/
* . /	. X 1	15-0	z (/ / ' ' ' ')		
7 /	/\· " -		· / X / //	11.	
Result (as received)	Result (on dry)	Result (as det)			¥
V :1:		99,3	%	Q	R
·		644	kg/m3	Q	R
	(as received) 0,057 0,09 < 0,040 < 0,020 < 3,0 0,007 < 5,0 < 5,0 7,3	(as received) (on dry) 0,057 0,061 0,09 0,10 < 0,040	Result (as received) Result (on dry) Result (as det) 0,057 0,061 0,056 0,09 0,10 0,09 < 0,040	Result (as received) Result (on dry) Result (as det) 0,057 0,061 0,056 mg/kg 0,09 0,10 0,09 mg/kg < 0,040	Result (as received) Result (on dry) Result (as det) 0,057 0,061 0,056 mg/kg Q 0,09 0,10 0,09 mg/kg Q < 0,040

Q - Analyses ISO 17025 accredited by RvA (ILAC) R - Carried out by TLR International Laboratories, location Rotterdam

O - Outsourced

Demanded 04-Sep-2020 by Control Union Certifications Germany GmbH Analyses according to annex

Drs. ing. H. Janssens Director TLR International Laboratories



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