

Analytical Report Control Union Certifications Germany GmbH Attn: . Bornitzstraße 73-75 D-10365 Berlin Germany Reportnr. : 1789671 version 1 :06-Oct-2023 Sample Arrival Date 27-Oct-2023 15:58 Sampling Date ReportDate Version 03-Nov-2023 17:08 Samplesize (kg) :15 Seal / Seal Code Packing : Plastic, ambient : No / Sample information * : Woodpellets **Disponent Number** :898446 Product specification Reference : Tayfun_2023_09_28 AWB / BarCode : niet duidelijke Disp. Remark : Private Enverprise Tayfun -Plus, 41 Shashkevych street, 80530, v Ozhydiv, Lviv region Ukraine * Information supplied by customer (TLR takes no responsibility for this information). **Composition Determination** Parameter Result Result Result Result (as received) (on dry) (as det) (dry ash free) **Total Moisture** 7,24 % Q R Q R Moisture Airdry 7,26 % Ash 0,41 0,44 0,41 % Q R Volatile matter incl. moisture. 83,92 % Q R Volatile matter 76,68 82,67 76,66 83,03 % Fixed Carbon 15,67 16,89 % Gross Calorific Value 4705.2 4363,4 4726,2 R 4364,6 kcal/kg Q 18,27 GJ/mt 19,70 18,27 19,79 7856,2 8469,4 7854,1 8507,2 B.T.U.'s/Lb Nett Calorific Value (cV) 4061,3 kcal/kg Q GJ/mt 17.00 7310,3 B.T.U.'s/Lb kWh/kg 4,7 Nett Calorific Value (cP) 16,93 GJ/mt Q Emissionfactor CO2 (cV) t CO2/TJ 100,10 Emissionfactor CO2 (cP) 100,50 t CO2/TJ Hydrogen 5,35 5,77 6,16 5,79 % Q R Carbon 46,41 50,03 46,40 50,26 % Q R Nitrogen. < 0,05 < 0,05 < 0,05 < 0,05 % Q R S. (Sulfer) 0,010 0,011 0,010 0,011 % Q R Oxygen (by difference) 43,920 % Preparation Common Parameter Result 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**

Demanded 27-Oct-2023 by Control Union Certifications Germany GmbH Analyses according to annex

P.W. Platteschor, Managing Director TLR International Laboratories



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Reportnr. Sample Arrival Date ReportDate Version Packing	: 1789671 v : 27-Oct-202 : 03-Nov-20 : Plastic, am	23 15:58 23 17:08		Sampling Date Samplesize (kg) Seal / Seal Code	*: 06-Oct-2023 : 15 : No /		
Common	PAX.	LAX I					
Parameter		Result (as received)	Result (on dry)	Result (as det)			
AFT. (oxid) DT				1480	gr. C		R
Diameter pellets (n=25)		6,2	N		mm	Q	R
Length of pellets		13,4			mm	Q	R
Sieve < 3,15 mm.		0,22			%	1	R
Metal and other ele	ements						
Parameter	XA	Result (as received)	Result (on dry)	Result (as det)		XX	
Cd (Cadmium)	1.000	0,030	0,032	0,030	mg/kg	Q	R
Pb (Lead)	1 Miles	0,12	0,13	0,12	mg/kg	Q	R
As (Arsenic)		< 0,040	< 0,040	< 0,040	mg/kg	Q	R
Hg (Mercury)	$\sim M$	< 0,020	< 0,020	< 0,020	mg/kg	Q	R
Ni (Nickel)		< 3,0	< 3,0	< 3,0	mg/kg	Q	R
CI (Chlorine)		< 0,005	< 0,005	< 0,005	%	Q	R
Cr.(Chromium)		< 5,0	< 5,0	< 5,0	mg/kg		R
Cu.(Copper)		< 5,0	< 5,0	< 5,0	mg/kg		R
Zn. (Zinc)	V	< 1,0	< 1,0	< 1,0	mg/kg	12 h	R
Parameter	Ą	Result (as received)	Result (on dry)	Result (as det)	l. [].		
Sieve < 5,6 mm		1.	Kit in	0,4	%		R
Other Analysis	11.	1 /1	X 7	XXX TAX			
Common	2	· ····································	1.5				
Parameter	1.1.1	Result (as received)	Result (on dry)	Result (as det)			
Mechanical Durab	ility	98,2			%	Q	R
Bulk density-		671		/ AXXXXX	kg/m3	Q	R
Particle density		ht.		1,25	g/cm3		R
Share of pellets< 10mm		~//		20,5	w %		R
Category Category M		Category M			A. Th		R
Q - Analyses ISO 17025 acc R - Carried out by TLR Inter							

Demanded 27-Oct-2023 by Control Union Certifications Germany GmbH Analyses according to annex P.W. Platteschor, Managing Director TLR International Laboratories



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Reportnr.	: 1789671 version 1	0	*.00 0-+ 2022
Sample Arrival Date ReportDate Version	: 27-Oct-2023 15:58 : 03-Nov-2023 17:08	Sampling Date	[°] : 06-Oct-2023 : 15
		Samplesize (kg) Seal / Seal Code	-
Packing	: Plastic, ambient	Seal / Seal Code	: No /
ANNEX			
Method Description	IS		
Composition Deterr	mination	7	
Common			The the
Method Description			Method Code
	ash; gravimetric method 171 Biomass: NEN-EN15403; Secc		
	carbon (C), nitrogen (N), hydrogen		
Coal : NEN-ISO29 15407	9541, Biomass: NEN-EN-ISO 1694		
Determination of f	fusibility of ash; ash formed (815°C), cube form	NEN-EN-ISO 21404
	gross caloric value by bombcaloric	method and calculation of net caloric	
value Coal: NEN-ISO 19 EN15400	928, Solid Biofuels NEN-EN-ISO18	125; secundairy biofuels NEN-	
	moisture in the analyse sample; gra 1722;Biomass: NEN-EN-ISO 18134		
	Sulphur (S); NEN-EN-ISO 16994		
Determination of t round hole ISO 18	the amount of material passing thro 3846:2016		
Determination of t	the length and diameter of the wood	Acc. NEN-EN-ISO17829	
	total moisture in the sample; gravin 9 MB biomasss: NEN-EN-ISO 181		
	volatile matter content; gravimetric 62; Biomass: NEN-EN-ISO 18123;	method secundairy biofuels: NEN-EN 15402	
Metal and other el	ements		
Method Descript			Method Code
	Chlorine (Cl); Ion chromatography ng NEN-EN-ISO 16994 Coal: Own	method	NEN-EN-ISO 16994
Determination of I	mercury (Hg); CV-AAS	Acc. NEN-EN-ISO16968	
Determination of I	minor elements. As, Cd, Co, Cr, Cu	ı, Hg, Mn, Mo, Ni, Pb, Sb, V and Zn	eq.nen-en-iso16968
Method Descript	ion	XI PARA	Method Code
Determination of t round hole ISO 18		ough a sieve with 3,15 mm diameter	
			And the second laboretories
Analyses according to	23 by Control Union Certifications (annex naging Director TLR International L	Page 3 of 4	
		aborat01165	73 WITH 05 PM

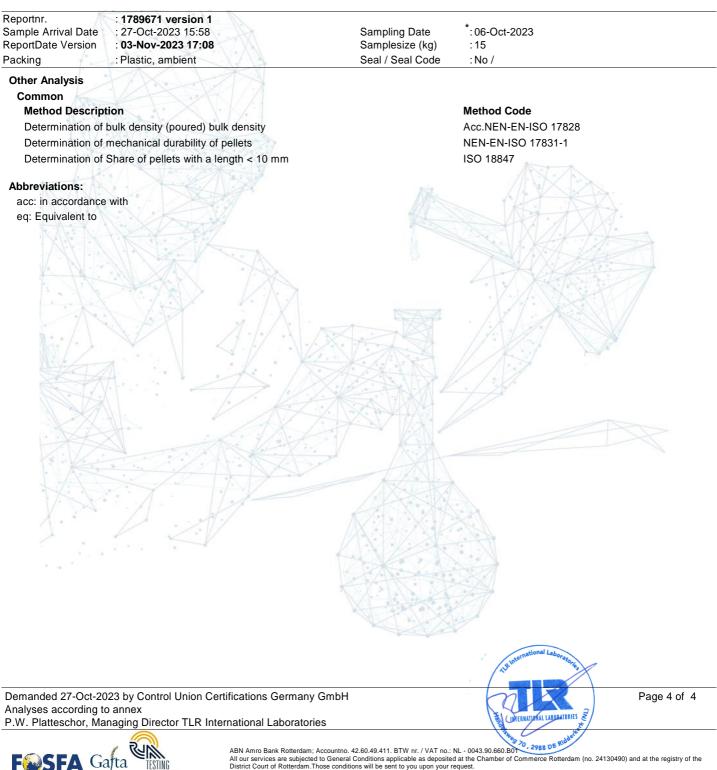


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