

## **Analytical Report Control Union Certifications Germany GmbH** Attn: . Bornitzstraße 73-75 D-10365 Berlin Germany Reportnr. : 1789666 version 1 :06-Oct-2023 Sample Arrival Date 27-Oct-2023 15:49 Sampling Date 06-Nov-2023 19:05 ReportDate Version Samplesize (kg) :15 Seal / Seal Code Packing : Plastic, ambient : No / Sample information \* **Disponent Number** : Woodpellets :897728 Product specification Reference :Seven\_2023\_10\_06 AWB / BarCode : niet duidelijke Disp. Remark : Client : SEVEN PALLETS LIMITED LIABILITY COMPANY \* Information supplied by customer (TLR takes no responsibility for this information). **Composition Determination** Parameter Result Result Result Result (dry ash free) (on dry) (as received) (as det) **Total Moisture** 5,88 % Q R Moisture Airdry 7,16 % Q R Ash 0.30 0,32 0.30 % Q R Volatile matter incl. moisture. 87,12 % Q R Volatile matter 81,07 86,13 79,97 86,41 % **Fixed Carbon** 12,75 13,55 % **Gross Calorific Value** 4976,8 4620,6 kcal/kg 4684,1 4992,7 Q R 19.61 20.84 19.35 20.90 GJ/mt 8431.4 8958.2 8317,1 8986,9 B.T.U.'s/Lb Nett Calorific Value (cV) 4361,2 kcal/kg Q 18,26 GJ/mt 7850.2 B.T.U.'s/Lb 5,1 kWh/kg Nett Calorific Value (cP) 18,18 GJ/mt Q Emissionfactor CO2 (cV) 97,31 t CO2/TJ Emissionfactor CO2 (cP) t CO2/TJ 97,72 6,29 Hydrogen 5,90 6,27 6,62 Q R % Carbon 51,65 Q 48,46 51,48 47,80 % R Q R Nitrogen. 0,06 0,06 0,07 % 0,06 Q R S. (Sulfer) < 0,010 < 0,010 < 0,010 % < 0,010 41,990 % Oxygen (by difference) Preparation Common Parameter Result Result Result (as received) (on dry) (as det) B-wood preparation according NEN EN 14780 and NEN EN Preparation sample 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	: <b>1789666 version 1</b> : 27-Oct-2023 15:49 : <b>06-Nov-2023 19:05</b>			Sampling Date Samplesize (kg)	*:06-Oct-2023 :15		
Packing	: Plastic, am	bient		Seal / Seal Code	: No /		
Common	PAX.	LAX.					
Parameter		Result (as received)	Result (on dry)	Result (as det)			
AFT. (oxid) DT				1330	gr. C		R
Diameter pellets (n=25)		6,2	N		mm	Q	R
Length of pellets		10,3			mm	Q	R
Sieve < 3,15 mm.		0,16			%	1	R
Metal and other ele	ements			200			
Parameter	X/1	Result (as received)	Result (on dry)	Result (as det)		XX	·
Cd (Cadmium)	N.XV	0,140	0,149	0,138	mg/kg	Q	R
Pb (Lead)	The second	0,09	0,09	0,09	mg/kg	Q	R
As (Arsenic)	11111	< 0,040	< 0,040	< 0,040	mg/kg	Q	R
Hg (Mercury)	X	< 0,020	< 0,020	< 0,020	mg/kg	Q	R
Ni (Nickel)		< 3,0	< 3,0	< 3,0	mg/kg	Q	R
CI (Chlorine)	1.1.2	< 0,005	< 0,005	< 0,005	%	Q	R
Cr.(Chromium)	V.A.	< 5,0	< 5,0	< 5,0	mg/kg		R
Cu.(Copper)		< 5,0	< 5,0	< 5,0	mg/kg		R
Zn. (Zinc)	V	8,2	8,7	8,1	mg/kg	N.	R
Parameter	A	Result (as received)	Result (on dry)	Result (as det)			
Sieve < 5,6 mm		12	K.	0,7	%		R
Other Analysis	The second	1 /1	X The				
Common	$\leq 1$	in it	1.1.5				
Parameter	1	Result (as received)	Result (on dry)	Result (as det)			
Mechanical Durab	ility	98,7			%	Q	R
Bulk density-	· · ·	655			kg/m3	Q	R
Particle density	1	ht.		1,28	g/cm3		R
Share of pellets<	10mm	->-1/		33,3	w %		R
Category	1 ·	Category S					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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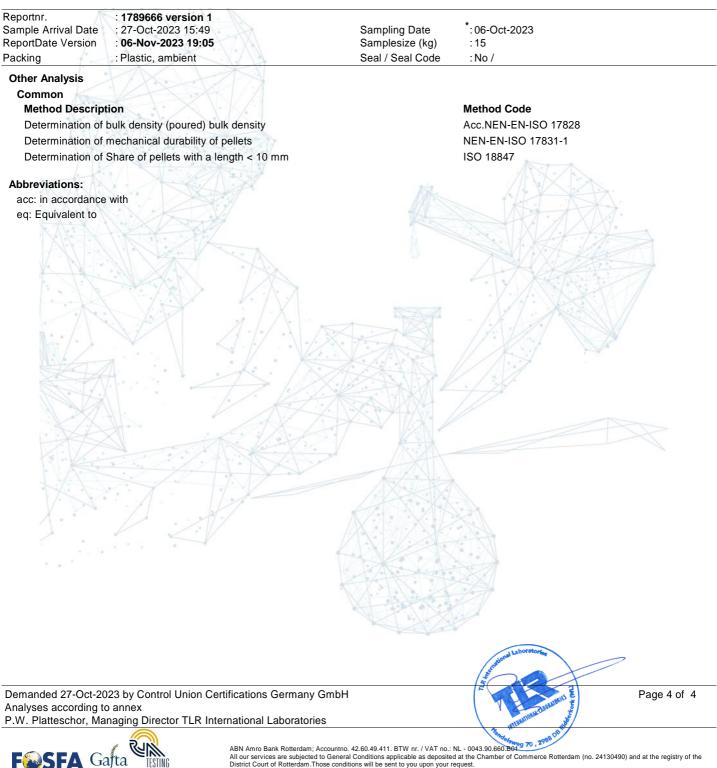
Reportnr.	: 1789666 version 1		*	
Sample Arrival Date	: 27-Oct-2023 15:49	Sampling Date	: 06-Oct-2023	
ReportDate Version	: 06-Nov-2023 19:05	Samplesize (kg)	:15	
Packing	: Plastic, ambient	Seal / Seal Code	: No /	
AXEN				
Method Description	ns			
Composition Deter	mination	7		
Common			A Starte	
Method Descrip	otion	127	Method Code	
	ash; gravimetric method I171 Biomass: NEN-EN15403; Seco			
	carbon (C), nitrogen (N), hydrogen			
Coal : NEN-ISO2 15407	29541, Biomass: NEN-EN-ISO 1694	8 : Secondary bio fuels NEN-EN		
Determination of	fusibility of ash; ash formed (815°C	NEN-EN-ISO 21404		
	gross caloric value by bombcaloric	A. T. Kenter		
	1928, Solid Biofuels NEN-EN-ISO18	125; secundairy biofuels NEN-		
EN15400	moisture in the analyse sample; gra	wimetrie method		
	11722;Biomass: NEN-EN-ISO 18134			
Determination of	Sulphur (S); NEN-EN-ISO 16994	AXAD		
Determination of round hole ISO 1	the amount of material passing thro 8846:2016			
Determination of	the length and diameter of the wood	Acc. NEN-EN-ISO17829		
	total moisture in the sample; gravin 89 MB biomasss: NEN-EN-ISO 181			
	volatile matter content; gravimetric 562; Biomass: NEN-EN-ISO 18123;	method secundairy biofuels: NEN-EN 15402		
Metal and other e	elements			
Method Descrip	otion	KT DNAT	Method Code	
	Chlorine (Cl); Ion chromatography ling NEN-EN-ISO 16994 Coal: Own	method	NEN-EN-ISO 16994	
Determination of	mercury (Hg); CV-AAS	Acc. NEN-EN-ISO16968		
Determination of	minor elements. As, Cd, Co, Cr, Cu	ı, Hg, Mn, Mo, Ni, Pb, Sb, V and Zn	eq.nen-en-iso16968	
Method Descrip	tion		Method Code	
-	the amount of material passing thro	ough a sieve with 3,15 mm diameter		
			13 International Laborator	
	023 by Control Union Certifications	Germany GmbH	Pa	ge 3 of 4
Analyses according t			TATERNATIONAL LABORATORIES	
P.W. Platteschor, Ma	anaging Director TLR International L	aboratories		

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