

D-10318 Berlin Germany							
Reportnr. : 1761430 Sample Arrival Date : 27-Jul-203 ReportDate Version : 03-Aug-2 Packing : Plastic, ar	23 10:34 023 16:06	Sampling Date Samplesize (ko Seal / Seal Co			[*] :06-Jul-2023 :15 :No /		
Sample information *		1					
Disponent Number : 843034		Product specification :WOODPELLETS/A1- Reference :PELLETA1/0607 UA004_2023_07_06					
A TVR MIL		* Inf	ormation supplie	d by custome	er (TLR takes no respo	onsibility for	this information)
Composition Determination		1					
Parameter	Result (as received)	Result (on dry)	Result (as det)	Resul (dry ash f		D.	
Total Moisture	4,06				%	Q	R
Moisture Airdry			9,52		%	Q	R
Ash	0,30	0,31	0,28		%	Q	R
Volatile matter incl. moisture.	2 have		86,78		%	Q	R
Volatile matter Fixed Carbon	81,92 13,72	85,39 14,30	77,26	85,	,66 % %	1	A
Gross Calorific Value	4669,5	4867,1	4404,0	4882,	2 kcal/kg	Q	R
Nett Calorific Value (cV)	19,55 8405,2 4360,1 18,25 7848,2 5,1	20,38 8760,8	18,44 7927,1	20, 8788,		Q	
Nett Calorific Value (cP) Emissionfactor CO2 (cV) Emissionfactor CO2 (cP)	18,18 97,76 98,16	÷ []			GJ/mt t CO2/TJ t CO2/TJ	Q	
Hydrogen	5,83	6,07	6,56	6,	09 %	Q	R
Carbon	48,67	50,73	45,90	50,	88 %	Q	R
Nitrogen.	0,10	0,10	0,09		10 %	Q	R
S. (Sulfer)	< 0,010	< 0,010	< 0,010	< 0,	010 %	Q	R
Oxygen (by difference)		Yor	- The		910 %		
Preparation	· //./-			KIXA			
Common Parameter	Result (as received)	Result (on dry)	Result (as det)	XD			
Preparation sample		aration in accord	ation in accordance with NEN EN 14780			Q R	R
Composition Determination Common			K K K	TP2	- Al-		
Parameter	Result	Result	Result	Cole 14			
	(as received)	(on dry)	(as det)	2 AV			
Demanded 27-Jul-2023 by Control	Lucion Cortification	Cormony Cmb			TR International	ale and the second seco	Page 1 of





Reportnr. Sample Arrival Date ReportDate Version Packing	: 1761430 ver : 27-Jul-2023 : 03-Aug-2023 : Plastic, ambie	10:34 • 16:06		Sampling Date Samplesize (kg) Seal / Seal Code	[*] : 06-Jul-2023 : 15 : No /		
AFT. (oxid) DT	-AA	LAK!		1440	gr. C		R
		6,2			mm	Q	R
Length of pellets	and in	14,1			mm	Q	R
Sieve < 3,15 mm.		0,17			%		R
Metal and other el	ements	in the second	5				
Parameter		Result	Result	Result			
		(as received)	(on dry)	(as det)	Ast.		
Cd (Cadmium)		0,097	0,101	0,092	mg/kg	Q	R
Pb (Lead)	$\times //Z$	0,07	0,08	0,07	mg/kg	Q	R
As (Arsenic)	N.K.	< 0,040	< 0,040	< 0,040	mg/kg	Q	7 R
Hg (Mercury)	M. C.	< 0,020	< 0,020	< 0,020	mg/kg	Q	R
Ni (Nickel)	1 All	< 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	X. A.	R
Cu.(Copper)		< 5,0	< 5,0	< 5,0	mg/kg	XXX	R
Zn. (Zinc)		7,1	7,4	6,7	mg/kg		R
Other Analysis	A A	28	A	a state	· / X / 1		
Common		1.1.1			11: 12.		
Parameter		Result (as received)	Result (on dry)	Result (as det)		1. Au	
Mechanical Durab	oility	99,0			%	Q	R
Bulk density-		662	1		kg/m3	Q	R
			Germany Gmbł		to International Labo	a searce	Page 2 of 4



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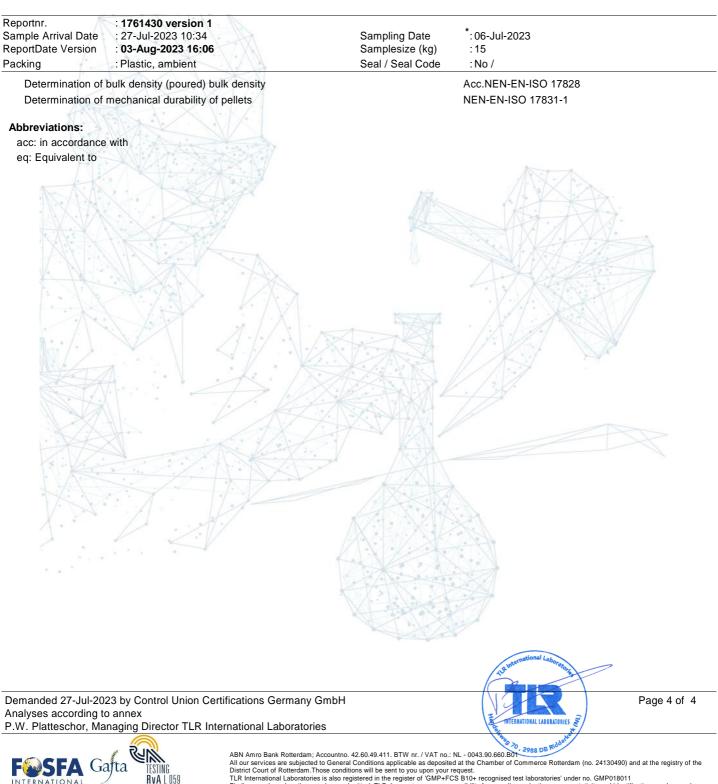


Reportnr.	: 1761430 version 1			
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ReportDate Version	: 03-Aug-2023 16:06	Samplesize (kg)	: 15	
Packing	: Plastic, ambient	Seal / Seal Code	: No /	
ANNEX				
Method Description	15			
Composition Deter	mination	7		
Common			A CONTRACT	
Method Descript	tion		Method Code	
	ash; gravimetric method 171 Biomass: NEN-EN15403; Sec	condary bio fuels: NEN-EN- ISO 18122		>
	carbon (C), nitrogen (N), hydrogen		$A : A \times X $	
Coal : NEN-ISO2 15407	9541, Biomass: NEN-EN-ISO 169	48 : Secondary bio fuels NEN-EN		2
Determination of	fusibility of ash; ash formed (815°C	C), cube form	NEN-EN-ISO 21404	SAN
	gross caloric value by bombcaloric	T XXX		
value Coal: NEN-ISO 1 EN15400	928, Solid Biofuels NEN-EN-ISO1	8125; secundairy biofuels NEN-		
Determination of Coal: NEN-ISO 1 EN15414-3	moisture in the analyse sample; gr 1722;Biomass: NEN-EN-ISO 1813			
Determination of	Sulphur (S); NEN-EN-ISO 16994			
Determination of round hole ISO 1		rough a sieve with 3,15 mm diameter		
Determination of	the length and diameter of the woo	Acc. NEN-EN-ISO17829		
	total moisture in the sample; gravi 39 MB biomasss: NEN-EN-ISO 18	metric method 134-1; Secondary bio fuels : NPR-		
	volatile matter content; gravimetric 62; Biomass: NEN-EN-ISO 18123;	c method ; secundairy biofuels: NEN-EN 15402		
Metal and other e	lements			
Method Descript	tion	KZ DNATS	Method Code	
	Chlorine (CI); Ion chromatography ing NEN-EN-ISO 16994 Coal: Own		NEN-EN-ISO 16994	
Determination of	mercury (Hg); CV-AAS		Acc. NEN-EN-ISO16968	
Determination of	minor elements. As, Cd, Co, Cr, C	u, Hg, Mn, Mo, Ni, Pb, Sb, V and Zn	eq.nen-en-iso16968	
Other Analysis				
Common		K total a set		
Method Descript	tion		Method Code	
			As the metonal Laboratories	/
Domandod 27 Jul 20	22 by Control Union Cortifications	Cormony CmbH		Page 3 of 4
Analyses according to	23 by Control Union Certifications			Faye S UI 4
	naging Director TLR International	Laboratories	INTERNATIONAL LABORATORY	



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