

Germany							
	024 14:14 024 12:06	Sampling Date [*] : 02-Feb-2024 Samplesize (kg) : 15 Seal / Seal Code : No /					
9	mbient	7	Seal / Sea		10 /		
ample information * isponent Number : 894171	X		Reference AWB / Bai	:L rCode :1	Voodpellets .VIV_2023_07_31 34991100492901		
	No the second	* Inf	formation supplie	d by customer (TLR takes no respo	onsibility for t	his information)
Composition Determination							
Parameter	Result (as received)	Result (on dry)	Result (as det)	Result (dry ash fre	e)		
Total Moisture	6,18				%	Q	R
Moisture Airdry	South and		5,82		%	Q	R
Ash	0,49	0,52	0,49		%	Q	R
Volatile matter incl. moisture. Volatile matter Fixed Carbon	79,09 14,25	84,29 15,19	85,21 79,38	84,73	% % %	Q	R
Gross Calorific Value	4694,0	5003,2	4711,8	5029,3	kcal/kg	Q	R
Nett Calorific Value (cV)	19,65 8449,3 4373,6 18,31 7872,5 5,1	20,95 9005,8	19,73 8481,3	21,06 9052,7	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)	18,24 97,56 97,96	÷ []X		X4	GJ/mt t CO2/TJ t CO2/TJ	Q	
Hydrogen	5,82	6,20	6,49	6,23		Q	R
Carbon	48,72	51,92	48,90	52,19		Q	R
Nitrogen.	0,20	0,22	0,20	0,22		Q	R
S. (Sulfer)	< 0,010	< 0,010	< 0,010	< 0,01	0 %	Q	R
Oxygen (by difference)	2.2 1.6	YN	A.J	41,35	0 %		
Preparation Common Parameter	Result	Result	Result				
Preparation sample	(as received) B-wood prepar 15443	(on dry) ation according	(as det) NEN EN 14780	and NEN EN	Ŕ	Q	R
Composition Determination Common	10440		AA				
Parameter	Result	Result	Result	and the			
Falameter	(as received)	(on dry)	(as det)	N. A.			
					International Laboratorie		



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Sample Arrival Date : 22-Feb-	9 version 1 2024 14:14 2024 12:06 ambient		Sampling Date Samplesize (kg) Seal / Seal Code	*: 02-Feb-2024 : 15 : No /		
AFT. (oxid) DT			1410	gr. C		R
Diameter pellets (n=25)	6,2			mm	Q	R
Length of pellets	11,2			mm	Q	R
Sieve < 3,15 mm.	1,50			%		R
Metal and other elements	Vin the set	3				
Parameter	Result (as received)	Result (on dry)	Result (as det)	Net	*	
Cd (Cadmium)	0,134	0,143	0,135	mg/kg	Q	R
Pb (Lead)	0,08	0,09	0,08	mg/kg	Q	R
As (Arsenic)	< 0,040	< 0,040	< 0,040	mg/kg	Q	R
Hg (Mercury)	< 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	ANDE	R
Zn. (Zinc)	7,5	7,9	7,5	mg/kg	X. (.)	R
Biogenic amines	1	A	i Ad			
Parameter	Result (as received)	Result (on dry)	Result (as det)	11224	10	¥.
Sieve < 5,6 mm			2,6	%		R
Other Analysis	i i je	: 1 / / 📿	The states of the	////		
Common	-1/.	1.				
Parameter	Result (as received)	Result (on dry)	Result (as det)			
Mechanical Durability	98,1	1.1.5		%	Q	R
Bulk density-	631	X	A	kg/m3	Q	R
Particle density	C.A.M.W	XDr	1,28	g/cm3		R
Share of pellets< 10mm	L. IN		26,2	w %		R
Category	Category M					R
Q - Analyses ISO 17025 accredited by RvA R - Carried out by TLR International Labor						

Demanded 22-Feb-2024 by Control Union Certifications Germany GmbH Analyses according to annex P.W. Platteschor, Managing Director TLR International Laboratories



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eportnr. ample Arrival Date	: 1828149 version 1 : 22-Feb-2024 14:14	Sampling Date	*:02-Feb-2024
eportDate Version	01-Mar-2024 12:06	Samplesize (kg)	:15
acking	: Plastic, ambient	Seal / Seal Code	: No /
ANNEX Method Description	s		
Composition Deterr	mination		
Common			A A A A A A A A A A A A A A A A A A A
Method Description			Method Code
New ANAL	ash; gravimetric method	15th	
	171 Biomass: NEN-EN15403; Secor	A A A A	
	carbon (C), nitrogen (N), hydrogen (H		
Coal : NEN-ISO29 15407	9541, Biomass: NEN-EN-ISO 16948	: Secondary bio fuels NEN-EN	
	usibility of ash; ash formed (815°C),	NEN-EN-ISO 21404	
	gross caloric value by bombcaloric m		
value	928, Solid Biofuels NEN-EN-ISO181	X	X / XXX
Determination of moisture in the analyse sample; gravimetric method Coal: NEN-ISO 11722;Biomass: NEN-EN-ISO 18134-3; Secondary bio fuels : NEN-			
EN15414-3	1722, BIOINASS. NEW-EN-150 10154-	S, Secondary bio fuels . NEW-	
Determination of S	Sulphur (S); NEN-EN-ISO 16994	AZA	
Determination of t round hole ISO 18	the amount of material passing throu 3846:2016	igh a sieve with 3,15 mm diameter	
Determination of t	he length and diameter of the wood	pellets; Own method	Acc. NEN-EN-ISO17829
	total moisture in the sample; gravime 9 MB biomasss: NEN-EN-ISO 1813		
	volatile matter content; gravimetric m 52; Biomass: NEN-EN-ISO 18123; s		
Metal and other el	ements		
Method Descript		K/ INVIT	Method Code
	Chlorine (Cl); Ion chromatography ng NEN-EN-ISO 16994 Coal: Own r	method	NEN-EN-ISO 16994
Determination of r	mercury (Hg); CV-AAS	Acc. NEN-EN-ISO16968	
Determination of r	minor elements. As, Cd, Co, Cr, Cu,	Hg, Mn, Mo, Ni, Pb, Sb, V and Zn	eq.nen-en-iso16968
Biogenic amines			
Method Descript	ion	K- totototot	Method Code
Determination of t round hole ISO 18	the amount of material passing throu 3846:2016	igh a sieve with 3,15 mm diameter	
			TR International Ladonto
Analyses according to		Page 3 of	
'.w. Platteschor, Mai	naging Director TLR International La	boratories	Res Construction of the second

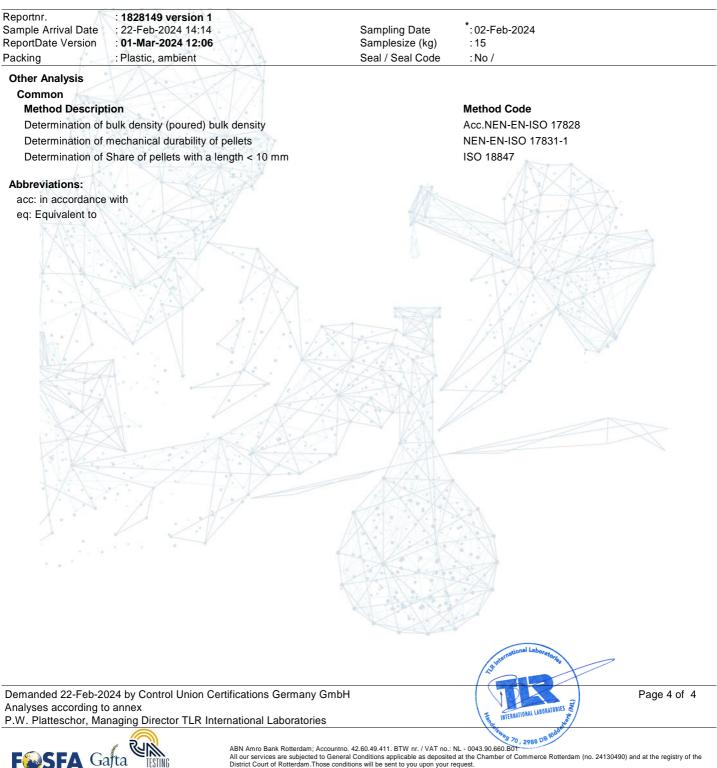
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