

## Analytical Report

**Comgoed biomasse B.V.**

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Reportnr. : 745982 version 1  
Product recognized as : Hout/Wood/Bois/Holz/Madera  
Product Specification : Wood pellets 6 mm  
Reference :  
AWB / BarCode :  
Packing : Plastic, ambient  
Sample Type : BIS

Disponent Number : 3215265  
Sampling Date : 30-Jun-2017  
Samplesize (kg) : 14,946  
Sealed / Seal Code : No /  
Sample Arrival Date : 04-Jul-2017 10:13  
ReportDate Version : 19-Jul-2017 07:07

### Composition Determination

Parameter	Result (as received)	Result (on dry)	Result (as det)	Result (dry ash free)	
Total Moisture	6,37			%	Q
Moisture Airdry			8,54	%	Q
Ash	0,22	0,23	0,21	%	Q
Volatile matter incl. moisture.			86,94	%	Q
Volatile matter	80,26	85,72	78,40	85,92	%
Fixed Carbon	13,15	14,04		%	
Gross Calorific Value	4715,3	5036,1	4606,0	5047,8	kcal/kg
	19,74	21,09	19,28	21,13	GJ/mt
Nett Calorific Value (cV)	8487,5	9064,9	8290,8	9086,1	B.T.U.'s/Lb
	4402,2				kcal/kg
	18,43				GJ/mt
	7924,0				B.T.U.'s/Lb
	5,1				kWh/kg
Nett Calorific Value (cP)	18,36				GJ/mt
Emissionfactor CO2 (cV)	97,14				t CO2/TJ
Emissionfactor CO2 (cP)	97,54				t CO2/TJ
Hydrogen	5,65	6,03	6,47	6,05	%
Carbon	48,83	52,15	47,70	52,27	%
Nitrogen.	< 0,05	< 0,05	< 0,05	< 0,05	%
S. (Sulfer)	< 0,01	< 0,01	< 0,01	< 0,01	%
Oxygen (by difference)				41,68	%

### Composition Determination

#### Common

Parameter	Result (as received)	Result (on dry)	Result (as det)	
AFT. (oxid) DT			1470	gr. C
Diameter pellets (n=25)			6,3	mm
Length of pellets			12,1	mm
Sieve < 3,15 mm			< 0,1	%

#### Metal and other elements

Parameter	Result (as received)	Result (on dry)	Result (as det)	
Cd (Cadmium)	0,098	0,105	0,096	mg/kg
Pb (Lead)	0,35	0,37	0,34	mg/kg

Demanded 04-Jul-2017 by Comgoed biomasse B.V.  
Analyses according to annex  
Drs. ing. H. Janssens Director TLR International Laboratories

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As (Arsenic)	< 0,040	< 0,040	< 0,040	mg/kg	Q
Hg (Mercury)	< 0,020	< 0,020	< 0,020	mg/kg	Q
Ni (Nickel)	< 3,0	< 3,0	< 3,0	mg/kg	Q
Cl (Chlorine)	< 0,005	< 0,005	< 0,005	%	Q
Cr.(Chromium)	< 5,0	< 5,0	< 5,0	mg/kg	
Cu.(Copper)	< 5,0	< 5,0	< 5,0	mg/kg	
Zn. (Zinc)	5,4	5,8	5,3	mg/kg	

### Other Analysis

Common					
Parameter	Result (as received)	Result (on dry)	Result (as det)		
Mechanical Durability			99,3	%	Q
Bulk density			683	kg/m3	Q

### Preparation

Common					
Parameter	Result (as received)	Result (on dry)	Result (as det)		
Preparation sample	Biomass preparation according NEN-EN14780				Q

Q - Analyses ISO 17025 accredited by RvA (ILAC)

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