

CERTIFICATE OF ANALYSIS



1765

CHRIS SIDEY
 QTD LTD
 280 NINE MILE RIDE
 FINCHAMPSTEAD
 BERKSHIRE
 RG40 3NT

Test Date(s): 16-Jun-2022 to 08-Jul-2022
Date of Report: 08-Jul-2022

Date Received: 16-Jun-2022

AHK Ref: DB/388315 Material Described As: WOOD BRIQUETTE
Client Ref: THERMOWOOD BRIQUETTE RECEIVED 16/06/2022

Samples were received by Alfred H Knight Energy Services Ltd and analysis results relate only to the items tested.

Client Ref.	Test	Method	Unit	As Received	Dry Basis	Dry Ash-Free
<u>Round Briquette</u>						
	Total Moisture *	SM030	%	6.0		
	Ash Content *	SM033	%	0.3	0.3	
	Volatile Matter *	SM032	%	77.1	82.0	82.2
	Fixed Carbon *	SM022	%	16.6	17.7	17.8
	Total Sulphur *	SM034	%	0.02	0.02	0.02
	Chlorine *	SM045	%	0.01	0.01	0.01
	Carbon *	SM035	%	47.8	50.8	51.0
	Hydrogen *	SM035	%	5.49	5.84	5.86
	Nitrogen *	SM035	%	0.18	0.19	0.19
	Oxygen By Difference		%	40.2	42.8	42.9
	Gross Calorific Value *	SM036	MJ/Kg	19.458	20.700	20.762
	Net Calorific Value *	SM037	MJ/Kg	18.115		

* - Accredited Test

Gibson Kabaso
 Biomass Technical Manager

For and on behalf of Alfred H Knight Energy Services Ltd

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Round Briquette

TRACE METAL ANALYSIS

Cadmium *	SM044	mg/Kg	0.02
Zinc *	SM044	mg/Kg	9.91
Lead *	SM044	mg/Kg	1.90
Copper *	SM044	mg/Kg	1.53
Chromium *	SM044	mg/Kg	1.30
Nickel *	SM044	mg/Kg	0.76
Cobalt *	SM044	mg/Kg	< 0.10
Arsenic *	SM044	mg/Kg	< 0.10
Mercury *	SM044	mg/Kg	< 0.01

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Client Ref.	Test	Method	Unit	Result
	<u>Round Briquette</u>			
	Particle Diameter		cm	5.0
	Particle Length		cm	5.1
	Particle Surface Area		cm ²	120.3
	Particle Density		g/cm ³	0.68

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