

CERTIFICATE OF ANALYSIS



ALFRED H KNIGHT



1765

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

Sampling Date: 25-Oct-2024
Date Received: 04-Nov-2024

Test Date(s): 04-Nov-2024 to 28-Nov-2024
Date of Report: 28-Nov-2024

AHK Ref: DB/417547
Client Ref: QBRIQUETTES (THERMOWOOD)

Material Described As: THERMOWOOD, ASH & PINE

Samples were received by Alfred H Knight Energy Services Ltd and analysis results relate only to the items tested. This Certificate of Analysis supersedes the previously issued certificate following retest of copper and sulphur.

Client Ref.	Test	Method	Unit	As Received	Dry Basis	Dry Ash-Free
<u>Briquettes</u>						
	Removed Ash Contributors	SPREP1	%	0.0		
	Total Moisture *	SM030	%	8.2		
	Total Ash Content *	SM033	%	0.6	0.6	
	Volatile Matter *	SM032	%	73.6	80.2	80.7
	Fixed Carbon *	SM022	%	17.6	19.2	19.3
	Total Sulphur *	SM034	%	0.02	0.02	0.02
	Chlorine *	SM045	%	< 0.01	< 0.01	< 0.01
	Carbon *	SM035	%	46.5	50.6	50.9
	Hydrogen *	SM035	%	5.64	6.14	6.18
	Nitrogen *	SM035	%	0.23	0.25	0.25
	Oxygen By Difference		%	38.9	42.4	42.7
	Gross Calorific Value *	SM036	MJ/Kg	19.474	21.213	21.341
	Net Calorific Value *	SM037	MJ/Kg	18.047		

* - Accredited Test



Gibson Kabaso
Technical Manager

For and on behalf of Alfred H Knight Energy Services Ltd



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<u>Briquettes</u>						
TRACE METAL ANALYSIS						
	Cadmium *	SM044	mg/Kg		0.07	
	Zinc *	SM044	mg/Kg		12.72	
	Lead *	SM044	mg/Kg		8.21	
	Copper *	SM044	mg/Kg		9.89	
	Chromium *	SM044	mg/Kg		1.05	
	Nickel *	SM044	mg/Kg		0.36	
	Cobalt *	SM044	mg/Kg		< 0.10	
	Arsenic *	SM044	mg/Kg		0.28	
	Mercury *	SM044	mg/Kg		< 0.01	

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Client Ref.	Test	Method	Unit	Result
	<u>Briquettes</u>			
	Particle Diameter		cm	5.5
	Particle Length		cm	5.9
	Particle Surface Area		cm ²	148.9
	Particle Density		g/cm ³	0.56

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