



ALFRED H KNIGHT



1765

BETH HOLLIS
 UK TIMBER LIMITED
 THE GAS DEPOT
 WELDON ROAD
 CORBY
 NN17 5UE
 UNITED KINGDOM

Test Date(s): 27-Mar-2023 to 03-Apr-2023
Date of Report: 03-Apr-2023

Date Received: 27-Mar-2023

AHK Ref: DB/397203

Material Described As: BRIQUETTES

Client Ref: BRIQUETTES RECEIVED 27/03/2023

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>Briquettes</u>						
	Total Moisture *	SM031	%	14.4		
	Total Ash Content *	SM033	%	0.6	0.7	
	Volatile Matter *	SM032	%	69.9	81.7	82.3
	Fixed Carbon *	SM022	%	15.1	17.6	17.7
	Total Sulphur *	SM034	%	< 0.01	< 0.01	< 0.01
	Chlorine *	SM045	%	< 0.01	< 0.01	< 0.01
	Carbon *	SM035	%	42.5	49.7	50.1
	Hydrogen *	SM035	%	4.79	5.60	5.64
	Nitrogen *	SM035	%	0.16	0.19	0.19
	Oxygen By Difference		%	37.5	43.8	44.1
	Gross Calorific Value *	SM036	MJ/Kg	16.753	19.571	19.709
	Net Calorific Value *	SM037	MJ/Kg	15.355		

* - 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		0.11	
	Zinc *	SM044	mg/Kg		4.23	
	Vanadium *	SM044	mg/Kg		0.16	
	Lead *	SM044	mg/Kg		1.01	
	Copper *	SM044	mg/Kg		1.78	
	Chromium *	SM044	mg/Kg		2.41	
	Nickel *	SM044	mg/Kg		1.79	
	Antimony *	SM044	mg/Kg		0.22	
	Cobalt *	SM044	mg/Kg		0.14	
	Manganese *	SM044	mg/Kg		67.37	
	Thallium *	SM044	mg/Kg		< 0.10	
	Arsenic *	SM044	mg/Kg		0.13	
	Mercury *	SM044	mg/Kg		0.01	
	Tin *	SM044	mg/Kg		< 0.10	

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CERTIFICATE OF ANALYSIS



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Client Ref.	Test	Method	Unit	Result
	<u>Briquettes</u>			
	Average Particle Thickness		cm	6.8
	Particle Length		cm	15.6
	Particle Surface Area		cm ²	629.2
	Particle Width		cm	9.3
	Particle Density		g/cm ³	0.84

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