

CERTIFICATE OF ANALYSIS



1765

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

Test Date(s): 21-Jul-2022 to 03-Aug-2022
Date of Report: 04-Aug-2022

Date Received: 21-Jul-2022

AHK Ref: DB/389501 Material Described As: BRIQUETTES
Client Ref: 2 CYLINDRICAL BRIQUETTE SAMPLES REC 21/07/2022

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 Briquettes Large</u>						
	Total Moisture *	SM031	%	13.5		
	Ash Content *	SM033	%	0.4	0.5	
	Volatile Matter *	SM032	%	69.9	80.8	81.2
	Fixed Carbon *	SM022	%	16.2	18.7	18.8
	Total Sulphur *	SM034	%	0.02	0.02	0.02
	Chlorine *	SM045	%	< 0.01	< 0.01	< 0.01
	Carbon *	SM035	%	42.0	48.5	48.7
	Hydrogen *	SM035	%	4.92	5.69	5.72
	Nitrogen *	SM035	%	0.32	0.37	0.37
	Oxygen By Difference		%	38.8	44.9	45.1
	Gross Calorific Value *	SM036	MJ/Kg	16.977	19.627	19.726
	Net Calorific Value *	SM037	MJ/Kg	15.573		

* - Accredited Test

Scott Foster
 Biomass Operations Manager
 For and on behalf of Alfred H Knight Energy Services Ltd

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<u>Round Briquettes Large</u>						
TRACE METAL ANALYSIS						
	Cadmium *	SM044	mg/Kg		0.04	
	Zinc *	SM044	mg/Kg		10.60	
	Vanadium *	SM044	mg/Kg		< 0.10	
	Lead *	SM044	mg/Kg		3.33	
	Copper *	SM044	mg/Kg		3.03	
	Chromium *	SM044	mg/Kg		1.94	
	Nickel *	SM044	mg/Kg		1.22	
	Antimony *	SM044	mg/Kg		< 0.10	
	Cobalt *	SM044	mg/Kg		0.15	
	Manganese *	SM044	mg/Kg		39.64	
	Thallium *	SM044	mg/Kg		< 0.10	
	Arsenic *	SM044	mg/Kg		0.34	
	Mercury *	SM044	mg/Kg		< 0.01	
	Tin *	SM044	mg/Kg		< 0.10	

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Client Ref.	Test	Method	Unit	Result
<u>Round Briquettes Large</u>				
	Particle Diameter		cm	8.5
	Particle Length		cm	30.4
	Particle Surface Area		cm ²	920.4
	Particle Density		g/cm ³	0.98

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Biomass Operations Manager

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