

SUBMITTED SAMPLE ANALYTICAL REPORT

SGS Reference: JS23-034
Client Reference: WOOD PELLET
Client Reference 2.:
Sample Type: Solid Bio Fuels
Sample Received From: Client
Sample Description: Plastic bag, good condition without seal
Date Sample received: 2 March 2023 9:57:00 AM
Seal Numbers:
Date Confirmed: 2 March 2023 5:16:00 PM

Date Issued: 10 March 2023
Date(s) Tested: 3 March 2023
Principal: PT. KINAYA PROYEK INDONESIA
Address: Ruko Grand Royal Blok B.19, Poris
 Plawad Utara, Cipondoh, Tangerang
City, State, Postal: Banten
Country: Indonesia
Attention: Sephia

The sample(s), to which the findings recorded herein (the "FINDINGS") relate, was (were) drawn and / or provided by the Client or a third party acting on Client's directions. The Findings constitute no warranty of the sample's representativity of all the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is /are said to be extracted.

Additional Information 1

5.920 kg Wood Pellet sample supplied by Client
 Sample was packed in waterproof plastic bag, good condition, without seal
 Sample nominal top size is around 8 mm

Analysis performed in accordance with ISO Standards or other International Standards and SGS Procedures.

			As-Received Basis (ar)	As-Determined Basis (ad)	Dry Basis (db)	Dry Ash-Free Basis (daf)
Proximate Analysis	Moisture	%	4.69	6.47	-----	-----
	Moisture (Total) #	Ash #	1.80	1.77	1.89	-----
	Moisture (as-determined) #	ISO Volatile Matter #	77.24	75.80	81.04	82.61
		Fixed Carbon (calculation by difference)	16.27	15.96	17.07	17.39
		Total Sulfur #	0.03	0.03	0.03	0.03

Gross Calorific Value #	kcal/kg	4442	4359	4661	4750
ISO 1928	Net CV, constant pressure	kcal/kg	4109	4022	4340
ISO 1928	Net CV, constant volume	kcal/kg	4127	4040	4357

NCV(v) requires H analysis, NCV(p) requires CH analysis

Ultimate Analysis			As-Received Basis (ar)	As-Determined Basis (ad)	Dry Basis (db)	Dry Ash-Free Basis (daf)
Moisture (Total) #	Moisture (as-determined) #					
	Total Carbon ##	%	48.02	47.12	50.38	51.35
	Total Hydrogen (includes H in moisture) ##	%	6.40	6.49	6.17	6.29
	Total Nitrogen ##	%	0.43	0.42	0.45	0.46
	Total Sulfur #	%	0.03	0.03	0.03	0.03
	Ash #	%	1.80	1.77	1.89	-----
	Oxygen by diff.(includes O in moisture)	%	43.32	44.17	41.08	41.87
	Total	%	100.00	100.00	100.00	100.00
	Moisture	%	(4.69)	(6.47)	-----	-----
	Hydrogen (excludes H in moisture)	%	5.88	5.77	DB & DAF H & O values exclude H & O in moisture	
	Oxygen (excludes O in moisture)	%	39.15	38.42		

Signed and dated

Jambi

10 March 2023



Septianus.S.B (Lab Supervisor PT. SGS Indonesia)

For and on behalf of

Septianus.S.B (Lab Supervisor PT. SGS Indonesia)

 Natural Resources Jl. Kasang Puduk Komp. Pergudangan Blok A No.4 RT.19, Kumpeh Ulu, Muaro Jambi.
 0741 3609190

www.sgs.com

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METHODS

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ACCREDITATION STATUS: **SGS Laboratory**: SELECT * if analysis is included in the SGS Accreditation; Select # if analysis is NOT included in the SGS Accreditation.
 Third Party Laboratory (internal or external): SELECT **, if analysis is performed by an Accredited - Third Party Laboratory*, SELECT ## if analysis is performed a NON-Accredited Third Party Laboratory

Method	Standard	Executing Laboratory	Name of Accreditation Body, Type, & Registration No.	ACCREDITATION TEST STATUS * SGS Accredited Test; # SGS Non Accredited Test, ** Third Party Lab - Accredited, ## Third Party Lab - Non Accredited	Accreditation Test Status	Uncertainty of Measurement
Moisture (Total Moisture)#	ISO 18134-1 - 2015	SGS Jambi		#	Non Accredited Test	
Moisture (Analysis Moisture)#	ISO 18134-3 - 2015	SGS Jambi		#	Non Accredited Test	
Ash #	ISO 18122 - 2015	SGS Jambi		#	Non Accredited Test	
ISO Volatile Matter #	ISO 18123 - 2015	SGS Jambi		#	Non Accredited Test	
Fixed Carbon (calculation by difference)	By Calculated	SGS Jambi		#	Non Accredited Test	
Total Sulfur #	ISO 19579 - 2016	SGS Jambi		#	Non Accredited Test	
Gross Calorific Value #	ISO 18125 - 2017	SGS Jambi		#	Non Accredited Test	
Ultimate Analysis (C,H,N, O,xoven calculation by difference)##	ISO 16948 - 2015	SGS Banjarmasin		##	Third Party Lab - Non Accredited	
Physical Attributes of Sample						

Additional information required by the Accreditation Body:-
 NOTE: ALL Tests subcontracted to a Third Party Laboratory (internal or external), or marked as * #, ## Not Accredited *, are not included in the SGS ISO 17025 Laboratory Accreditation.

Signed and dated
 Jambi
 10 March 2023



Septianus.S.B (Lab Supervisor PT. SGS Indonesia)

For and on behalf of
 Septianus.S.B (Lab Supervisor PT. SGS Indonesia)

Natural Resources Jl. Kasang Puduk Komp. Pergudangan Blok A No.4 RT.19, Kumpeh Ulu, Muaro Jambi.
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