



WOOD PELLETS

ABOUT *SPF*

PT. SUMATERA PRIMA FIBREBOARD

SPF is an Indonesia's Leading Manufacturer of MDF, HMR, CDF, FR & Melamine Boards for Furniture, Interior, and Construction.

With **strong adaptability** and **manufacturing expertise**, SPF produces a wide range of MDF products. Beyond MDF, SPF also offers Melamine Faced MDF (MFM), CDF Melamine, Melamine Faced Plywood (MFP), and Veneer Faced MDF (VFM), each designed to meet diverse requirements.

In addition to these established product lines, SPF is now **enhancing its capabilities in producing wood pellets**, mainly for power plants, further supporting sustainable energy solutions.



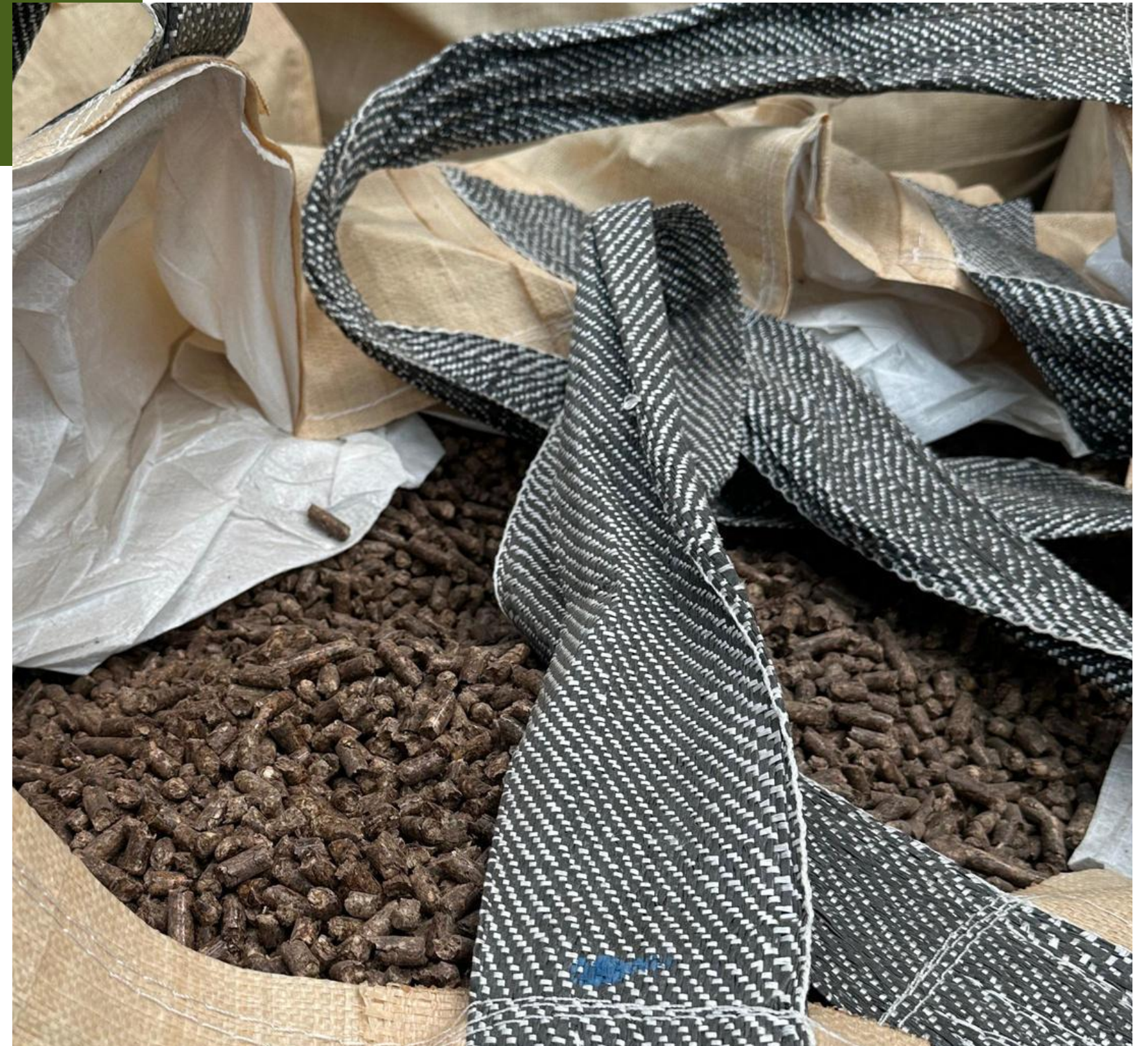
SPF'S NEW DEVELOPMENT; WOOD PELLETS

Wood pellets are a type of biomass fuel made from compressed sawdust and wood shavings. They are small, cylindrical pieces (usually 6–10 mm in diameter) that are dense, uniform, and dry, making them efficient to burn and easy to store or transport.


SPF's Wood Pellets breakdown:

- All woods are 100% RUBBER WOOD from our Log yard.
- Rubber wood from 'Kayu Hutan Rakyat' and 'Kayu Hutan Tanaman'.
- The woods could be debarked/not debarked.
- SPF's wood pellets have high Net Caloric Value
- Monthly production: 4000-4500 Ton/Month

CERTIFICATION



WOOD PELLETS CERTIFICATION

CERTIFICATE

Certificate-Holder **PT Sumatera Prima Fibreboard**
 KM 28 Desa Palem Raya
 Indralaya-Ogan Ilir 30662
 Sumatera Selatan
 Indonesia

System FSC® - Chain of Custody

Standard FSC-STD-40-004

Testing-basis Certification Scheme FSC® - Chain of Custody (2019-07)

FSC-Control-System Transfer System

Status of Material FSC 100 %

Registration No. TUVDC-COC-100935

Edition(s) 4. Issue

Valid until 2027-06-12

Remark(s) The validity of this certificate as well as further details regarding the certification scope shall be verified on www.info.fsc.org.


This certificate is property of DIN CERTCO GmbH. Certificates and their copies must be returned immediately upon request of DIN CERTCO GmbH.

This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified [or FSC Controlled Wood]. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents.

See annex for further information.




 2022-06-13
 Dipl.-Biol. Katharina Vehrung, M. Eng.
 Certifier

DIN CERTCO Gesellschaft für Konformitätsbewertung mbH - Alboinstraße 56 - D-12103 Berlin - www.dincertco.de



Certificate



No. BRIK-VLK-0062

Date of expiry: 18th June 2027

Date of issue: 28th June 2012
 Date of 2nd recertification: 19th June 2021
 Date of 1st revision: 19th March 2022

This is to certify that

PT SUMATERA PRIMA FIBREBOARD

Jl. Raya Palembang Indralaya Km. 28, Desa Palem Raya,
 Kec. Indralaya Utara, Kab. Ogan Ilir, Prov. Sumatera Selatan

Has fulfilled in accordance with the requirements of
 standard of

Timber Legality Assurance System (TLAS)

Issued in Bogor, Indonesia
 Authorized by,


Soewarni
 President Director




Description	Scope
TLAS Regulation and Standard	- Regulation of the Minister of Environment and Forestry Number 8 Tahun 2021 - Decree of the Director General of Sustainable Production Forest Management Number SK.62/PHPL/SET.5/KUM.1/12/2020 (Attachment 4.2 and 4.3)
Industrial Permit & Capacity per year	IUIPHHK Number SK.680/Menlhk/Setjen/HPL.3/9/2019; IUI Number 434/T/INDUSTRI/2003 and Number 195/1/IU-PL/PMA/2014; IUIPHHK and IUI for NIB 8120111140815 - Wood Chips : 555,885 m ³ - MDF : 375,000 m ³ - Laminating : 80,000 m ³ - Decorative Plywood : 25,000 m ³

No.	Products	HS Codes	Sources	Species
1.	Medium Density Fibreboard	4 4 1 1	Community Forests and Import	Rubber Wood, Albasia, Melamine paper
2.	Melamine Faced MDF (MFM)			
3.	Melamine Faced Plywood (MFP)	4 4 1 2		

LEMBAGA VERIFIKASI LEGALITAS KAYU (LVLK) – PT BRIK Quality Services (BRIK-QS)
 Ruko Cibinong City Centre Blok E No. 16, Jl. Tegar Beriman, Kel. Pakansari, Kec. Cibinong, Kab. Bogor, Prov. Jawa Barat 16915
 Telp. (021) 29577388 dan (021) 83718768, e-mail: brikvlk@iwwn.com / website: www.brikonline.com

FM.VER.07-01-01

WOOD PELLETS

TABEL CLASSIFICATION

No	PARAMETER	Unit	Class		
			Grade A2	Grade A3	Grade A4
Physical Parameters					
1.	Diameter (As Received Basis)	mm	6,0 - 8,0	6,0 - 8,0	6,0 - 10,0
2.	Length : (As Received Basis)	mm	10 <L≤ 30	10 <L≤ 30	≤ 50
	≤ 50 mm	weight%	-	-	≥ 99,9
	≤ 40 mm	weight%	-	-	≥ 99,0
3.	Moisture Content (As Received Basis)	weight%	≤10	≤10	≤10
4.	Bulk Density (As Received Basis)	kg/m ³	600 - 750	600 - 750	≥ 600
5.	Net Calorific value at content pressure (As Received Basis)	Kcal/Kg	≥ 4000	≥ 4000	≥ 4000
6.	Ash Content (As Received Basis)	weight%	≤ 3,0	≤ 3,0	≤ 1,5
7.	Ash Fusion Deformation	°C	≥ 1150	≥ 1150	≥ 1150
8.	Durability (As Received Basis)	weight%	≥95	≥95	≥ 97- 99
9.	Fines ≤3,15 mm (As Received Basis)	weight%	≤2,0	≤2,0	≤5,0
Elementary composition					
10.	Chlorine (Dried Basis)	weight%	≤ 0,05	≤ 0,05	≤ 0,05
11.	Sulphur (Dried Basis)	weight%	≤ 0,05	≤ 0,05	≤ 0,05
12.	Nitrogen (Dried Basis)	weight%	≤ 0,3	≤ 0,3	≤ 0,3


WOOD PELLETS

TABEL CLASSIFICATION

No	PARAMETER	Unit	Class		
			Grade A2	Grade A3	Grade A4
Trace element (Dried Basis)					
13.	As (Arsenik)	mg/kg	≤ 1,0	≤ 1,0	≤ 2,0
14.	Cd (Cadmium)		≤ 0,5	≤ 0,5	≤ 1,0
15.	Cr (Chromium)		≤ 5	≤ 5	≤ 15
16.	Cu (Copper/Tembaga)		≤ 10	≤ 10	≤ 20
18.	Pb (Timbal)		≤ 10	≤ 10	≤ 10
19.	Hg (Mercury)		≤ 0,05	≤ 0,05	≤ 0,10
20.	Zn (Zinc)		≤ 80	≤ 80	≤ 200
21.	Ni (Nikel)		≤ 10	≤ 10	-
22.	Na + K*		-	-	≤ 2000
Particle size distribution (square hole sieves)					
22.	% ≤ 3,15 mm (As Received Basis)	weight%	-	≥ 30	≥ 98
23.	% ≤ 2,00 mm (As Received Basis)	weight%	-	≥ 40	≥ 90
24.	% ≤ 1,00 mm (As Received Basis)	weight%	-	≥ 40	≥ 50

WOOD PELLETS LAB TEST

***Korea Standard**
International Grade; I3
OR
SPF Grade; A3



SGS

SUBMITTED SAMPLE ANALYTICAL REPORT

SGS Reference: JS25-106.002	Date Issued: 18 July 2025	
Client Reference: Wood Pellet Sample 2	Date(s) Tested: 11 July 2025	
Client Reference 2.: 50% Kupas : 50% Tidak Kupas	Principal: PT. SUMATERA PRIMA FIBREBOARD	
Sample Type: Solid Biofuels	Address: Gedung Prosperity Lantai 51 Distric 8, SCBD Lot	
Sample Received From: Client	Kebayoran Baru	
Sample Description: Packed in plastic bag, good condition without seal	City, State, Postal: Kota Adm. Jakarta Selatan	
Date Sample received: 24 June 2025 10:12:00 AM	Country: Indonesia	
Seal Numbers:	Attention: Adhy Soerya	
Date Confirmed: 10 July 2025 10:00:00 AM		

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
17.823 kg wood pellet sample supplied by Client
Sample was packed in waterproof plastic bag, good condition, without seal
Sample nominal top size is around 30 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 %	3,2	2,2	-----	-----
Moisture (Total) *	Ash %	1,9	1,9	1,9	-----
Moisture (as-determined) *	ISO Volatile Matter %	80,2	81,0	82,8	84,5
	Fixed Carbon (calculation by difference) %	14,7	14,9	15,3	15,5
	Total Sulfur %	0,03	0,03	0,03	0,03


		As-Received Basis (ar)	As-Determined Basis (ad)	Dry Basis (db)	Dry Ash-Free Basis (daf)
Gross Calorific Value *	kcal/kg	4447	4493	4594	4685
ISO 1928	Net CV, constant pressure kcal/kg	4125	4173	4280	-----
ISO 1928	Net CV, constant volume kcal/kg	4142	4191	4297	-----

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

		As-Received Basis (ar)	As-Determined Basis (ad)	Dry Basis (db)	Dry Ash-Free Basis (daf)
Ultimate Analysis	Moisture (Total) * Moisture (as-determined) *				
	Total Carbon %	48,4	48,9	50,0	51,0
	Total Hydrogen (includes H in moisture) %	6,20	6,15	6,03	6,15
	Total Nitrogen %	0,22	0,22	0,22	0,23
	Total Sulfur %	0,03	0,03	0,03	0,03
	Ash %	1,9	1,9	1,9	-----
	Oxygen by diff. (includes O in moisture) %	43,25	42,80	41,82	42,59
	Total %	100,00	100,00	100,00	100,00
	Moisture %	(3,2)	(2,2)	-----	-----
	Hydrogen (excludes H in moisture) %	5,84	5,90	-----	-----
	Oxygen (excludes O in moisture) %	40,41	40,85	-----	-----

DB & DAF H & O values exclude H & O in moisture

Diameter	mm	7,8
Length	mm	36,0
Fines (+ 3.15 mm)	%	99,8
Fines (- 3.15 mm)	%	0,2
Durability	%	99,6
Bulk Density	kg/m3	670
Foreign Matter	%	0,0



SGS

SUBMITTED SAMPLE ANALYTICAL REPORT

SGS Reference: JS25-106.002	Date Issued: 18 July 2025	
Client Reference: Wood Pellet Sample 2	Date(s) Tested: 11 July 2025	
Client Reference 2.: 50% Kupas : 50% Tidak Kupas	Principal: PT. SUMATERA PRIMA FIBREBOARD	
Sample Type: Solid Biofuels	Address: Gedung Prosperity Lantai 51 Distric 8, SCBD Lot	
Sample Received From: Client	Kebayoran Baru	
Sample Description: Packed in plastic bag, good condition without seal	City, State, Postal: Kota Adm. Jakarta Selatan	
Date Sample received: 24 June 2025 10:12:00 AM	Country: Indonesia	
Seal Numbers:	Attention: Adhy Soerya	
Date Confirmed: 10 July 2025 10:00:00 AM		

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
17.823 kg wood pellet sample supplied by Client
Sample was packed in waterproof plastic bag, good condition, without seal
Sample nominal top size is around 30 mm

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

Size Fraction	Fractional Mass %	Cumulative Mass % Retained	Cumulative Mass % Passed
-mm			
+mm			
3,15	2	99,9	0,1
2	1	99,9	0,1
1	0	99,9	0,1
	0,1	100,0	0,0
Total	100,0		


Ash Fusion Temperatures #

		Reducing
Initial Deformation	Degree C.	1470
Spherical (Softening)	Degree C.	1490
Hemispherical	Degree C.	1490
Flow (Fluid)	Degree C.	1500

Minor elements in Soil Bio Fuels (Dry Basis) ##

Arsenic (As)	ppm	0,48
Cadmium (Cd)	ppm	0,11
Chromium (Cr)	ppm	1,09
Copper (Cu)	ppm	1,84
Nickel (Ni)	ppm	0,70
Lead (Pb)	ppm	0,45
Zinc (Zn)	ppm	21,99
Mercury (Hg)	ppm	0,04
Tin (Sn)	ppm	0,37
Chlorine (Cl)	%	0,01

Signed and dated
PT. SGS Indonesia
18 July 2025



Muis Wibowo (Coal Lab Manager)



For and on behalf of
Muis Wibowo (Coal Lab Manager)

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

www.sgs.com
Member of SGS Group

WOOD PELLETS LAB TEST

***Japan Standard**
International Grade; I2
or
SPF Grade; A4

SUBMITTED SAMPLE ANALYTICAL REPORT

SGS Reference: JS25-189.001 Client Reference: Expedisi PCP Sample ke 11 Client Reference 2.: - Sample Type: Solid Biofuels Sample Received From: Client Sample Description: Packed in plastic bag, good condition without seal Date Sample received: 10 September 2025 9:20:00 AM Seal Numbers: - Date Confirmed: 25 September 2025 4:01:00 PM	Date Issued: 6 October 2025 Date(s) Tested: 27 September 2025 Principal: PT. SUMATERA PRIMA FIBREBOARD Address: Gedung Prosperity Lantai 51 Distric 8, SCBD Lot Kebayoran Baru City, State, Postal: Kota Adm. Jakarta Selatan Country: Indonesia Attention: Adhy Soerya	
---	--	--

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
18.397 kg wood pellet sample supplied by Client
Sample was packed in waterproof plastic bag, good condition, without seal
Sample nominal top size is around 30 mm

Additional Information 2
The analytical results for As and Hg were issued by PT Sucofindo Cabang Samarinda Ref. No. 5801/50/002873/10/2025

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	%	6,1	3,4	-----	-----
Moisture (Total) *	%	0,9	0,9	0,9	-----
Moisture (as-determined) *	%	79,1	81,4	84,3	85,1
Fixed Carbon (calculation by difference)	%	13,9	14,3	14,8	14,9
Total Sulfur *	%	0,03	0,03	0,03	0,03
Gross Calorific Value *		kcal/kg	4358	4483	4641
ISO 1928 Net CV, constant pressure		kcal/kg	4027	4159	4326
ISO 1928 Net CV, constant volume		kcal/kg	4045	4177	4343

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

		As-Received Basis (ar)	As-Determined Basis (ad)	Dry Basis (db)	Dry Ash-Free Basis (daf)
Ultimate Analysis					
Total Carbon **	%	47,1	48,5	50,2	50,7
Total Hydrogen (includes H in moisture) **	%	6,36	6,22	6,05	6,10
Total Nitrogen **	%	0,23	0,24	0,25	0,25
Total Sulfur *	%	0,03	0,03	0,03	0,03
Ash *	%	0,9	0,9	0,9	-----
Oxygen by diff.(includes O in moisture)	%	45,38	44,11	42,57	42,92
Total	%	100,00	100,00	100,00	100,00
Moisture	%	(6,7)	(3,4)	-----	-----
Hydrogen (excludes H in moisture)	%	5,68	5,84	-----	-----
Oxygen (excludes O in moisture)	%	39,96	41,09	-----	-----

DB & DAF H & O values exclude H & O in moisture

Diameter mm 7,9 Length mm 33,6 Fines (+ 3.15 mm) % 99,9 Fines (- 3.15 mm) % 0,1 Durability % 99,6 Bulk Density kg/m ³ 637 Foreign Matter % 0,0	
--	--

SUBMITTED SAMPLE ANALYTICAL REPORT

SGS Reference: JS25-189.001 Client Reference: Expedisi PCP Sample ke 11 Client Reference 2.: - Size Distribution A. (air-dried basis) # Round holed Sieves used.	Date Issued: 6 October 2025 Date(s) Tested: 27 September 2025 Principal: PT. SUMATERA PRIMA FIBREBOARD Address: Gedung Prosperity Lantai 51 Distric 8, SCBD Lot Kebayoran Baru City, State, Postal: Kota Adm. Jakarta Selatan Country: Indonesia Attention: Adhy Soerya	
---	--	--

Size Fraction	Fractional Mass %	Cumulative Mass % Retained	Cumulative Mass % Passed
3,15	2	99,9	0,1
2	1	100,0	0,0
1	0	100,0	0,0
Total		100,0	0,0


Ash Fusion Temperatures #

	Reducing
Initial Deformation	Degree C. >1600
Spherical (Softening)	Degree C. >1600
Hemispherical	Degree C. >1600
Flow (Fluid)	Degree C. >1600

Minor elements in Soil Bio Fuels (Dry Basis) #

Arsenic (As)	ppm	0,37
Cadmium (Cd)	ppm	0,04
Chromium (Cr)	ppm	0,31
Copper (Cu)	ppm	0,96
Nickel (Ni)	ppm	0,33
Lead (Pb)	ppm	0,18
Zinc (Zn)	ppm	7,39
Mercury (Hg)	ppm	0,03
Tin (Sn)	ppm	0,20
Chlorine (Cl)	%	0,004
Na in the sample (Dry Basis)	ppm	27
K in the sample (Dry Basis)	ppm	1596

Signed and sealed
 PT. Sumatera Prima Fibreboard - Jambi
 6 October 2025

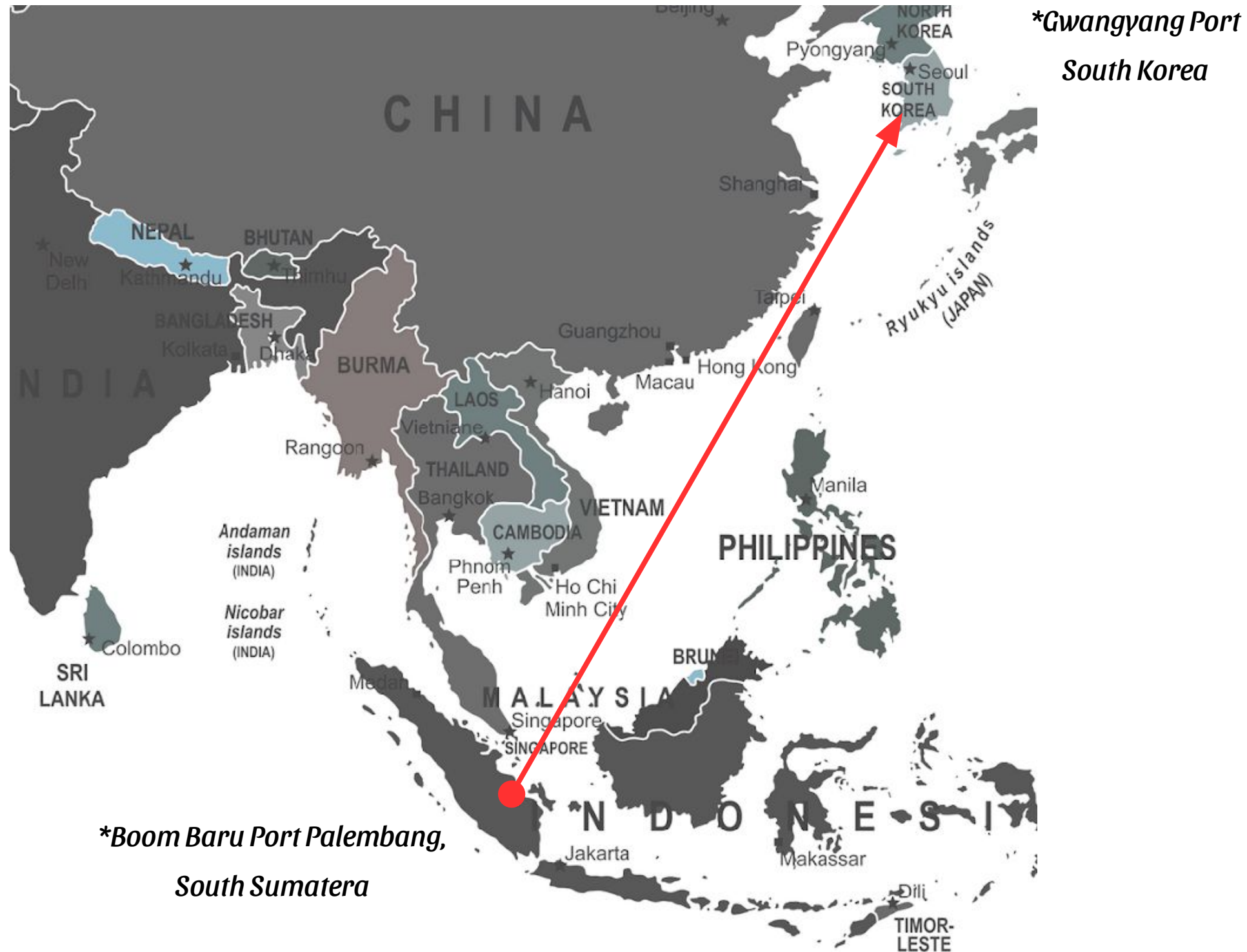


Muis Wibowo (Coal Lab Manager)

For and on behalf of
 Muis Wibowo (Coal Lab Manager)

Natural Resources Jl. Kasang Puduk Kemp. Pergudangan Blok A No.4 RT.19, Kumpoh Ulu, Muaro Jambi.
 0741 3609190 www.sgs.com
 Member of SGS Group

WOOD PELLETS CURRENT SHIPMENT



**Monthly Contract to
SGC Solutions Co., LTD
2000 Tons / Month**

WOOD PELLETS MACHINES AND WAREHOUSE





THANK YOU!



+62-21 50102279 / WA: +62 811 9220 1140



www.spf.co.id



anindya.revina@spf.co.id



Head Office

Prosperity Tower, Lantai 51, District 8, Kawasan SCBD, Lot 28, Jl. Jenderal Sudirman No.Kav. 52-53, RT.8/RW.3, Senayan, Kebayoran Baru, South Jakarta City, Jakarta 12190



Factory

Jl. Trans Sumatera, Km 28, Desa Palem Raya Indralaya, Palem Raya, Palembang, Kabupaten Ogan Ilir, South Sumatera 30862