

CERTIFICATE OF ANALYSIS

Description : Sawdust Charcoal Briquettes
Type of Sample : Hexagonal, Size (> 50 mm)
Manufacturer / Shipper : PT. Mitra Wood Sejahtera
Dsn. Tanggungan RT. 5 RW. 2, Ds. Wringinanom,
Kec. Wringinanom, Kab. Gresik, Jawa Timur, Indonesia
Sample Weight : 3.00 kgs
Date of Production : 10 May 2025
Date of Sampling : 28 May 2025
Location of Sampling : PT. Mitra Wood Sejahtera, Warehouse
Date of Analysis : 30 May 2025
Production Batch No. : 15052025

Sampling

Samples were taken and prepared in accordance with SNI 19-0428-1998.

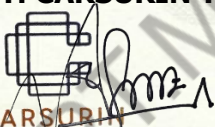
Analysis

Analysis were performed at PT Carsurin Tbk. Gresik Laboratory (accreditation by KAN / National Accreditation Committee – Indonesia for ISO 17025:2017 Cert No. LP-2065-IDN) in accordance with ASTM Standard. The results of our analysis are as follows:

Parameter	Unit	Results		Method
		Wet Basis	Dry Basis	
Moisture	%	7.14	-	ASTM D1762-84 (2021) section 7.2
Ash Content	%	3.41	3.67	ASTM D1762-84 (2021) section 7.4
Volatile Matter	%	6.92	7.45	ASTM D1762-84 (2021) section 7.3
Fixed Carbon	%	82.53	88.88	MWI.01.63.LC (by calculation)

This certificate refers solely to the analysis in accordance with the details described herein and does not certify any other matter, and is issued without prejudice.

Gresik, 02 June 2025
PT. CARSURIN Tbk.



Abdillah Faiz Naim
Head of Laboratory

For verification of authenticity of certificate or reports, scan the secure QR code using the Validator App or visit verify.carsurin.com

The analysis results are based on representative samples which are sampled by trained staff based on applied standard (Ref SNI 19-0428-1998 Petunjuk Pengambilan Contoh Padatan) during the inspection (or audit). This particular cargo as stated in this certificate has been performed cooling and weathering process as declared by the shipper in the weathering certificate. The certificate is valid for 90 days from the date of testing in particular shipment with the production batch/lot number as mentioned in this certificate



This report is made and issued by the Company upon the Principal/Applicant's request and the analysis contained therein reflects the Company's findings on the sample(s) submitted by Principal/Applicant and/or sample(s) drawn by the Company at the time and place of performing the inspection/testing only. Company shall not be liable for any changes to the results herein due to effects of weather, transport, storage or other factors outside Company's control. Furthermore, the Company shall not be responsible to any parties on any business, financial and/or legal consequences for any transaction by using this report/analysis. Any unauthorised alteration or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. This document cannot be reproduced except in full, without prior approval of the Company.

SUBJECT

Evaluation of "Sawdust Charcoal Briquette" Sample for Self-Heating Substance Test

MANUFACTURER / SHIPPER

PT. Mitra Wood Sejahtera
Dsn. Tanggungan RT. 5 RW. 2, Ds. Wringinanom,
Kec. Wringinanom, Kab. Gresik, Jawa Timur, Indonesia

DATE OF PRODUCTION

10 May 2025

DATE OF SAMPLING

28 May 2025

LOCATION OF SAMPLING

PT. Mitra Wood Sejahtera, Warehouse

DESCRIPTION OF SAMPLE

Sawdust Charcoal Briquette, Hexagonal, Size (> 50 mm)

DATE OF TESTING

29 May 2025 up to 30 May 2025

PRODUCTION BATCH NO.

15052025

The analysis results are based on representative samples which are sampled by trained staff based on applied standard (Ref SNI 19-0428-1998 Petunjuk Pengambilan Contoh Padatan) during the inspection (or audit). This particular cargo as stated in this certificate has been performed cooling and weathering process as declared by the shipper in the weathering certificate. The certificate is valid for 90 days from the date of testing in particular shipment with the production batch/lot number as mentioned in this certificate .



This report is made and issued by the Company upon the Principal/Applicant's request and the analysis contained therein reflects the Company's findings on the sample(s) submitted by Principal/Applicant and/or sample(s) drawn by the Company at the time and place of performing the inspection/testing only. Company shall not be liable for any changes to the results herein due to effects of weather, transport, storage or other factors outside Company's control. Furthermore, the Company shall not be responsible to any parties on any business, financial and/or legal consequences for any transaction by using this report/analysis. Any unauthorised alteration or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. This document cannot be reproduced except in full, without prior approval of the Company.

METHOD OF TEST

The self heating substances test was performed according to United Nations "Recommendations on the Transport Dangerous Good, Manual of Test and Criteria" (33.4.3.3.1) as per revised UN test manual 7th edition 2019. Self heating substances, using method of UN 33.4.6 "Test N.4: Test method self-heating substances".

A consignment of carbon if it passes the tests for self-heating substances as reflected in the United Nations Manual of Tests and Criteria (see 33.4.3.3.1), and is accompanied by a certificate from a laboratory accredited by the competent authority, stating that the product to be loaded has been correctly sampled by trained staff from that laboratory and that the sample was correctly tested and has passed the test.

The sample was placed into a 100 mm cubic mesh sample container made of stainless steel. The container was then hung at the centre of the oven. The oven temperature was slowly raised to 140° C and kept constant for 24 hours. The temperature at the centre of the sample and temperature between the container and oven were recorded continuously.

RESULT

Table 1: Analysis result for "Sawdust Charcoal Briquette" sample

Sample	Oven Temperature (°C)	Cube Size (mm)	Maximum Temperature Reached (°C)	Result
Sawdust Charcoal Briquettes	140	100	143	Negative

The above result showed that the "Sawdust Charcoal Briquette" sample shall not be classified in self heating substances.

Remark

The temperature profiles were enclosed in pages 3 for your references. T1 represented temperature in the center of the sample. T2 represented temperature between the container and the oven wall.

Gresik, 02 June 2025
PT. CARSURIN Tbk.



Abdillah Faiz Naim
Head of Laboratory

PT. CARSURIN Tbk.



CARSURIN
1968

Amran Lesmana
Head of Charcoal Division

For verification of authenticity of certificate or reports, scan the secure QR code using the Validator App or visit verify.carsurin.com



This report is made and issued by the Company upon the Principal/Applicant's request and the analysis contained therein reflects the Company's findings on the sample(s) submitted by Principal/Applicant and/or sample(s) drawn by the Company at the time and place of performing the inspection/testing only. Company shall not be liable for any changes to the results herein due to effects of weather, transport, storage or other factors outside Company's control. Furthermore, the Company shall not be responsible to any parties on any business, financial and/or legal consequences for any transaction by using this report/analysis. Any unauthorised alteration or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. This document cannot be reproduced except in full, without prior approval of the Company.

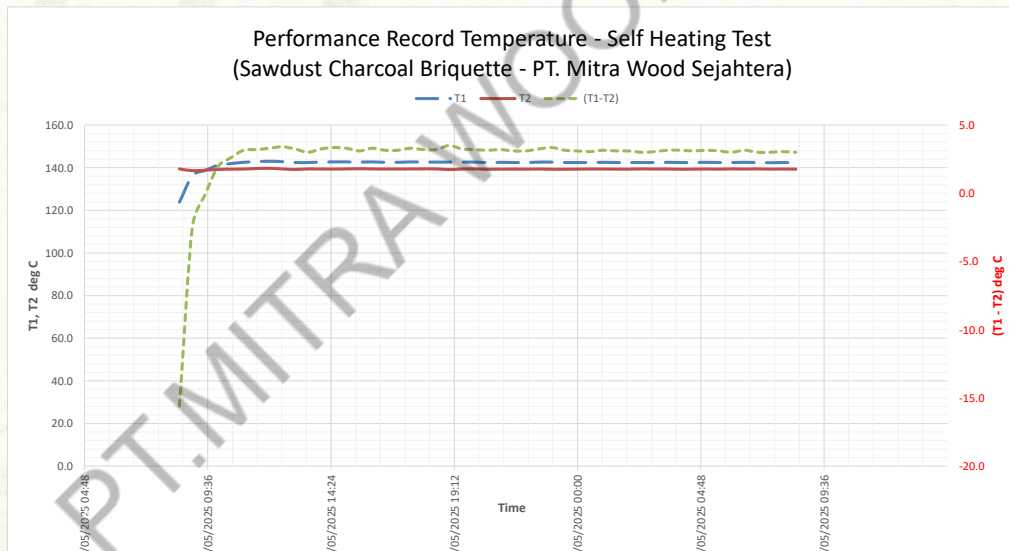
24 Hours Temperature Profile "Sawdust Charcoal Briquette" at 140 °C (100mm cube)

Start Time : 29-May-25 8:30:00
Stop Time : 30-May-25 8:30:00
Elapsed Time : 24:00:00
Interval : 00:30:00
Total Readings : 49
Thermocouple Type : K
Scaling : (None)

Temperature	Max Time Stamp	Max	Average	Min	Min Time Stamp
T1	29/05/2025 12:00	143.0	141.9	123.8	29/05/2025 08:30
T2	29/05/2025 12:00	139.7	139.3	138.6	29/05/2025 08:30
T1-T2	29/05/2025 19:00	3.5	2.6	-15.6	29/05/2025 08:30

Remark:

T1 represented temperature in the centre of the sample. T2 represented temperature between the container and the oven wall.



This report is made and issued by the Company upon the Principal/Applicant's request and the analysis contained therein reflects the Company's findings on the sample(s) submitted by Principal/Applicant and/or sample(s) drawn by the Company at the time and place of performing the inspection/testing only. Company shall not be liable for any changes to the results herein due to effects of weather, transport, storage or other factors outside Company's control. Furthermore, the Company shall not be responsible to any parties on any business, financial and/or legal consequences for any transaction by using this report/analysis. Any unauthorised alteration or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. This document cannot be reproduced except in full, without prior approval of the Company.

Please note that this Report is issued under the following terms:

1. This report applies to the specific product sample sampled and tested during testing. The results do not indicate or imply that they apply to other similar items. Besides, such result must not be used to indicate or imply that PT. CARSURIN Tbk approves, recommends, or endorses the manufactures, supplier, or user of such products/equipment or that PT. CARSURIN Tbk in any way 'guarantees' the letter performance of the product/equipment. Unless otherwise stated in this report, no test was conducted to determine the long-term effect of using the specific product/equipment.
2. The samples mentioned in this report are taken, and representative products are to be loaded that have been correctly sampled by trained staff from our laboratory and that the sample was correctly tested and has passed the test.
3. Nothing in this report shall be interpreted to mean that PT. CARSURIN Tbk. has verified or ascertained endorsement or marks from any other authority or bodies that may be found on that sample.
4. This report shall not be reproduced wholly or in parts and no reference shall be made by the client PT. CARSURIN Tbk. in any advertisements or sales promotion
5. Unless otherwise stated, the tests were carried out in PT. CARSURIN Tbk. Jl. KH Syafi'i No.18-20, RT 005/RW 003 Pongangan Manyar, Gresik or email : charcoal@carsurin.com



This report is made and issued by the Company upon the Principal/Applicant's request and the analysis contained therein reflects the Company's findings on the sample(s) submitted by Principal/Applicant and/or sample(s) drawn by the Company at the time and place of performing the inspection/testing only. Company shall not be liable for any changes to the results herein due to effects of weather, transport, storage or other factors outside Company's control. Furthermore, the Company shall not be responsible to any parties on any business, financial and/or legal consequences for any transaction by using this report/analysis. Any unauthorised alteration or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. This document cannot be reproduced except in full, without prior approval of the Company.