

CERTIFICATE OF ANALYSIS

Description : Coconut Shell Charcoal Briquette
Type of Sample : Cube
Manufacturer / Shipper : PT. Pradipa Muda Nusantara
Jl. Pilahan KG I NO.766 A, RT.40/RW.12, Pilahan
Rejowinangun, Kotagede, Yogyakarta, 55171
Sample Weight : 3.00 Kgs
Date of Sampling : 07 August 2026
Location of Sampling : PT. Pradipa Muda Nusantara, Warehouse
Date of Analysis : 08 August 2026
Invoice No. : INV-MKEINVBC53
Booking No. :
Gross Weight :

Sampling

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

Analysis

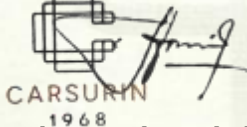
Analysis were performed at PT. CARSURIN Tbk. Semarang Laboratory (accreditation by KAN / National Accreditation Committee – Indonesia for SNI ISO/IEC 17025:2017 Cert No. LP-415-IDN) in accordance with ASTM Standard. The results of our analysis are as follows:

Parameter	Unit	Results		Method
		Wet Basis	Dry Basis	
Moisture	%	4.94	-	ASTM D1762-84 (2021) section 7.2
Ash Content	%	1.93	1.98	ASTM D1762-84 (2021) section 7.4
Volatile Matter	%	14.64	15.90	ASTM D1762-84 (2021) section 7.3
Fixed Carbon	%	75.20	81.69	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.

Jakarta, 13 August 2026

PT. CARSURIN Tbk.



Dede Jemmi Supriadi

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 taken 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 this particular shipment with the invoice number, booking number, and gross/net weight as mentioned in this certificate.



SUBJECT

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

MANUFACTURER / SHIPPER

PT. Pradipa Muda Nusantara
Jl. Pilahan KG I No.766 A, RT.40/RW.12, Pilahan,
Rejowinangun, Kotagede, Yogyakarta 55171

DATE OF SAMPLING

7 August 2026

LOCATION OF SAMPLING

PT. Pradipa Muda Nusantara, Warehouse

DESCRIPTION OF SAMPLE

Coconut Shell Charcoal Briquette, Cube

DATE OF TESTING

07 August 2026 up to 08 August 2026

INVOICE NO.

INV-MKEINVBC53

BOOKING NO.

GROSS WEIGHT

The analysis results are based on representative samples which are taken based on applied standards (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 this particular shipment with the invoice number, booking number, and gross/ net weight as mentioned in this certificate.



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) 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), 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 "Coconut Shell Charcoal Briquette" sample

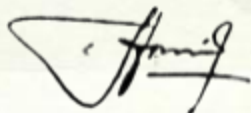
Sample	Oven Temperature (°C)	Cube Size (mm)	Maximum Temperature Reached (°C)	Result
Coconut Shell Charcoal Briquette	140	100	159.6	Negative

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

Remark

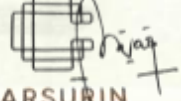
The temperature profiles were enclosed in pages 3 for your references. T1 represented temperature in the center of the sample. T2 represented temperature between the container and the oven wall.

Jakarta, 09 August 2026
PT . CARSURIN Tbk.



Dede Jemmi Supriadi
Head of Laboratory

PT. CARSURIN Tbk.



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Amran Lesmana
Head of Charcoal Division

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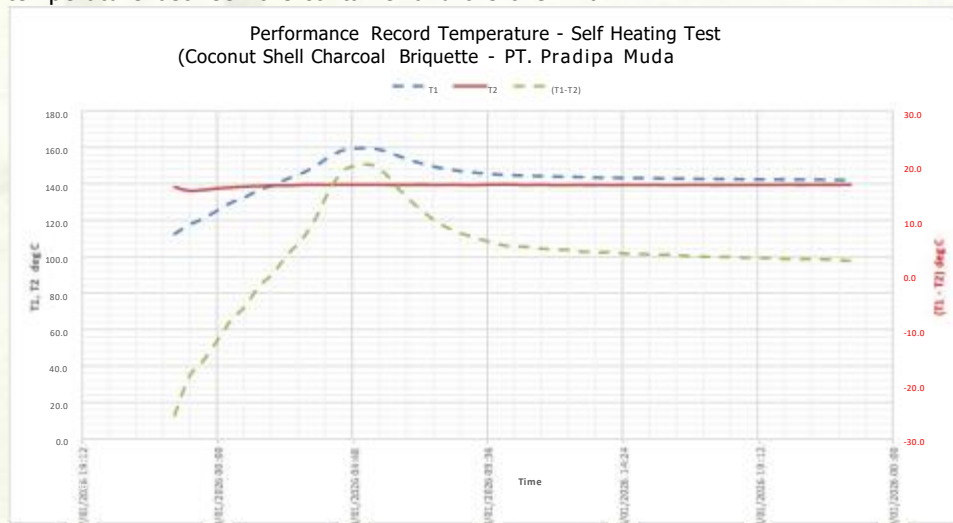
24 Hours Temperature Profile "Coconut Shell Charcoal Briquette" at 140⁰ C (100mm cube)

Start Time : 07-Aug-26 22:30:00
Stop Time : 08-Aug-26 22:30:00
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	08/08/2026 05:30	159.6	143.1	112.5	07/08/2026 22:30
T2	08/08/2026 05:00	139.6	139.2	136.2	07/08/2026 23:00
T1-T2	08/08/2026 05:30	20.1	3.9	-25.7	07/08/2026 22:30

Remark:

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



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 manufacturers, 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.
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Coconut Shell Charcoal Briquette, Type : Cube

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