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SUBJECT

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

CLIENT

PT. Kinaya Proyek Indonesia
Ruko Grand Royal Blok B.19,
Poris Plawad Utara, Cipondoh, Tangerang

DATE OF RECEIVED SAMPLE

January 19th, 2024

DESCRIPTION OF SAMPLE

Coconut Shell Charcoal Briquette for Barbeque

DATE OF TESTING

January 22th Up To January 23th, 2024

The below findings are based on sample/s only, which is/are submitted or supplied by client. Thi report is valid within 90 days from the date of analysis.

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 received 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 for Barbeque" Sample

Sample	Oven Temperature (°C)	Cube Size (mm)	Maximum Temperature Reached (°C)	Result
Coconut Shell Charcoal Briquette for Barbeque	140	100	144.1	Negative

The above result showed that the "Coconut Shell Charcoal Briquette for Barbeque" 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, January 24th, 2024

PT. CARSURIN, Tbk

Dede Jemmi Supriadi
Head of Laboratory

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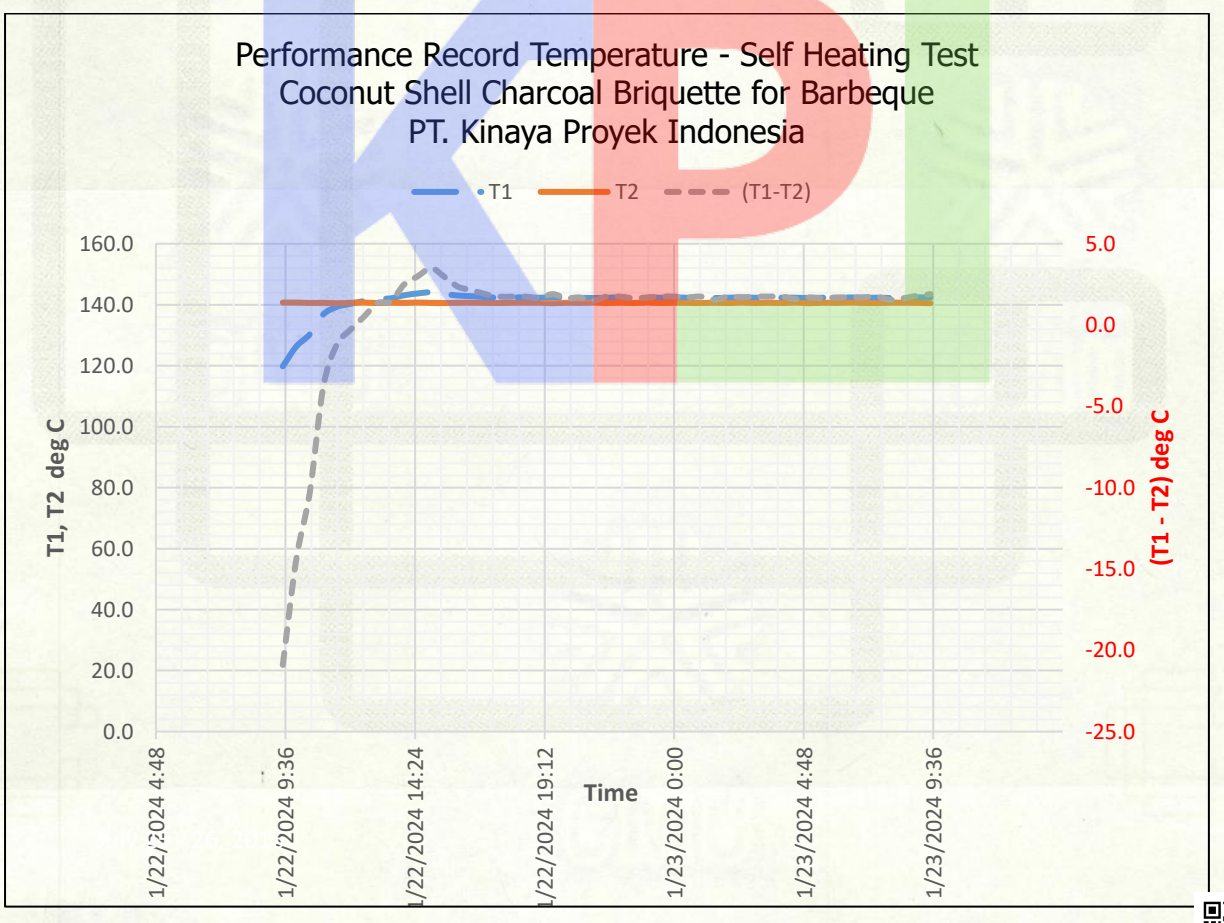
Amran Lesmana
Head of Technical Charcoal

For verification of authenticity certificate or report, please e-mail to charcoal@carsurin.com

24 Hours Temperature Profile "Coconut Shell Charcoal Briquette for Barbeque" at 140^0 C (100mm cube)

Start Time	: January 22th, 2024	09:30:00
Stop Time	: January 23th, 2024	09:30:00
Elapsed Time	: 24:00:00	
Interval	: 0:30:00	
Total readings	: 49	
Thermocouple Type	: K	
Scaling	: (none)	

	Max Time Stamp	Max	Average	Min	Min Time Stamp
T1	22/01/2024 16:30	144.1	141.2	119.8	22/01/2024 09:30
T2	22/01/2024 13:00	140.7	140.6	140.5	22/01/2024 09:30
T1-T2	22/01/2024 16:30	3.5	0.6	-20.9	22/01/2024 09:30



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 sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they apply to other similar items. Besides, such results must not be used to indicate or imply that PT. CARSURIN approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that PT. CARSURIN 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 effects of using the specific product/equipment.

2. The sample/s mentioned in this report is/are submitted by client.

3. Nothing in this report shall be interpreted to mean that PT. CARSURIN has verified or ascertained endorsement or marks from any other authority or bodies that be found on that sample.

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5. Unless otherwise stated, the tests were carried out in PT. CARSURIN Jl. Gaharu 1 Blok F2 No. 10 J, Multi Guna Niaga, Delta Silikon 3 Lippo Cikarang Bekasi

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Report No : 241861.0132

REPORT OF ANALYSIS

Description : Coconut Shell Charcoal Briquette for Barbeque
Manufactured / Shipper : PT. Kinaya Proyek Indonesia
Ruko Grand Royal Blok B.19,
Poris Plawad Utara, Cipondoh, Tangerang
Sample Weight : 3.00 Kgs
Date of Received Sample : January 19th, 2024
Date of Analysis : January 22th, 2024

Analysis

Analysis were performed at PT Carsurin Cikarang Laboratory (accreditation by KAN / National Accreditation Committe – Indonesia for ISO 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	Pct	6.92	-	ASTM D1762-84 (REAPPROVED 2021)
Ash Content	Pct	20.75	22.29	ASTM D1762-84 (REAPPROVED 2021)
Volatile Matter	Pct	16.03	17.22	ASTM D1762-84 (REAPPROVED 2021)
Fixed Carbon	Pct	56.30	60.49	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, January 24th, 2024
PT. CARSURIN, Tbk

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Dede Jemmi Supriadi
Head of Laboratory
For verification of authenticity certificate or report, please e-mail to charcoal@carsurin.com

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