

REPORT OF ANALYSIS

Description : Coconut Shell Charcoal Briquette
 Manufacturer / Shipper : PT. Kinaya Proyek Indonesia
 Ruko Grand Royal Blok B.19, Poris Plawad Utara, Cipondoh, Tangerang

Sample Weight : 3.00 kgs
 Received Date : 21 June 2023
 Date of Analysis : 22 June 2023

Analysis

Analysis were performed at PT Carsurin Cikarang Laboratory (accreditation by KAN / National Accreditation Committee – 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	7.85	-	ASTM D1762-84 (REAPPROVED 2021)
Ash Content	Pct	1.78	1.95	ASTM D1762-84 (REAPPROVED 2021)
Volatile Matter	Pct	15.35	15.84	ASTM D1762-84 (REAPPROVED 2021)
Fixed Carbon	Pct	78.02	81.21	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, 22 June 2023



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Head of Laboratory _____

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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), 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" sample

Sample	Oven Temperature (°C)	Cube Size (mm)	Maximum Temperature Reached (°C)	Result
Coconut Shell Charcoal Briquette	140	100	145.7	Negative

The above result showed that the "Coconut Shell Charcoal Briquette" sample shall not be classified in self heating substances of of division 4.2 – Substance liable to spontaneous combustion .

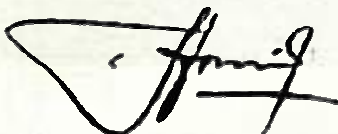
Remark

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, 22 June 202

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Dede Jemmi Supriadi
Head of Laboratory



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Head of Technical Charcoal

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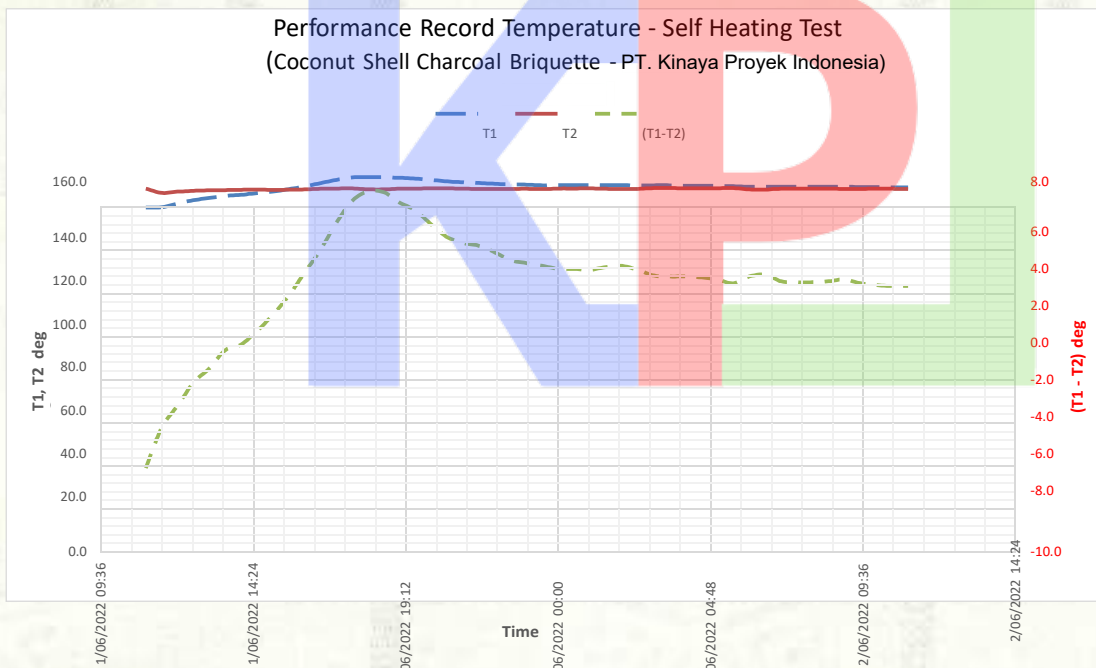
24 Hours Temperature Profile "Coconut Shell Charcoal Briquette" at 140⁰ C (100mm cube)

Start Time : 21-Jun-2 11:00:00
 Stop Time : 22-Jun-2 11:00:00
 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	21/06/2022 18:00	145.7	141.1	131.6	21/06/2022 11:00
T2	22/06/2022 03:00	140.7	140.2	138.4	21/06/2022 11:30
T1-T2	21/06/2022 18:00	5.6	0.9	-8.8	21/06/2022 11:00

Remark:

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



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