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Report No.: 221161.6629

CERTIFICATE OF ANALYSIS

Description

: Coconut Briquette Charcoal

Manufacturer / Shipper

: PT. Argia Sagara Group

Tugaran No.99 RT

002/012, Sindanglaya, Cipanas,

West Java, Indonesia

Sample Weight

: 3.00 kgs

Received Date Date of Analysis : 22 Oktober 2023

: 23 Oktober 2023

Analysis

Analysis were performed at PT Carsurin Semarang Laboratory (acceditation 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:

		Results			
Parameter			Dry Basis	Method	
Moisture	Pct	8.40	-	ASTM D1762-84 (REAPPROVED 2021)	
Ash Content	Pct	2.02	2.21	ASTM D1762-84 (REAPPROVED 2021)	
Volatile Matter	Pct	11.30	12.34	ASTM D1762-84 (REAPPROVED 2021)	
Fixed Carbon	Pct	78.28	85.45	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, 23 Oktober 2023

PT. CARSURIN

Dede Jemmi Supriadi Head of Laboratory

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SUBJECT

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

CUSTOMER

PT. Argia Sagara Group Tugaran No.99 RT 002/012,Sindanglaya,Cipanas, West Java, Indonesia

DATE OF RECEIVED SAMPLE

22 Oktober 2023

DESCRIPTION OF SAMPLE

Coconut Briquette Charcoal

DATE OF TESTING

22 Oktober 2023 up to 23 Oktober 2023

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







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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 Briquette Charcoal" sample

Sample Oven Temperature (Cube Size (mm)	Maximum Temperature Reached (°C)	Result	
Coconut Briquette Charcoal	140	100	140.5	Negative	

The above result showed that the "Coconut Briquette Charcoal" 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, 23 Oktober 2023

PT. CARSURIN Tbk.

Dede Jemmi Supriadi Head of Laboratory The hair

CARSURIN Tbk.

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Amran Lesmana Head of Technical Charcoal

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is report is made and issued by the Company upon the Principal/Applicant's request and the analysis contained therein reflects the Company's findings in 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 injl. Company's shall not be liable for any changes to the results herein due to effects of weather, transport, storage or other factors outside Company's ontrol. Furthermore, the Company shall not be responsible to any parties on any business, financial and/or legal consequences for any transaction by sing this report/analysis. Any unauthorised alteration or faisfrication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulliest extent of the law. This document connot be reproduced except in full, without prior approval of the Company.







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24 Hours Temperature Profile "Coconut Briquette Charcoalt" at 140° C (100mm cube)

Start Time

: 22-Okt-23

15:30:00

Stop Time

: 23-Okt-23

15:30:00

Elapsed Time

: 24:00:00

Interval

: 00:30:00

Total readings

: 49 : K

Thermocouple Type

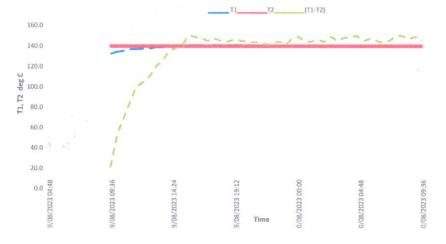
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: (None)

Temperature	Max Time Stamp	Max	Average	Min	Min Time Stamp
T1	09/08/2023 18:00	140.5	139.4	131.9	09/08/2023 09:30
T2	09/08/2023 18:00	140.4	139.9	138.8	09/08/2023 09:30
T1-T2	09/08/2023 15:30	0.4	-0.4	-6.8	09/08/2023 09:30

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

Performance Record Temperature - Self Heating Test (Coconut Briquette Charcoalt - PT. Argia Sagara Group)



-2.0 -3.0 ₾ 4.0 E -5.0

-6.0 -7.0











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