

TEST REPORT

210612

DATE : February 03, 2020

CLIENTS REFERENCE : No. 125/BPL/II/20

IN ACCORDANCE to an order received from clients requesting us to carry out testing the sample to follows:

SUBJECT

Evaluation of "COCONUT SHELL CHARCOAL BRIQUETTE" Sample for Self-Heating Substance Test

CLIENTS

PT. Coco Total Karbon Indonesia
Jl. Mayor Unus km 1.5 Soroyudan, Magelang, Central Java, Indonesia
Phone: +62 877 868 031 91
Email: export@charcoal.pro

SAMPLE SUBMISSION DATE

January 31, 2020

DESCRIPTION OF SAMPLE

One packet of Coconut Shell Charcoal Briquette sample was received

DATE OF ANALYSIS

February 01, 2020 up to February 02, 2020

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METHOD OF TEST

The self-heating substance test was performed according to United Nations "Recommendation on the Transport Dangerous Goods, Manual of Tests and Criteria" (33.3.1.3.3) Self-heating substance, using method of UN 33.3.1.6 "Test N.4: Test method for self-heating substance".

The sample in the received form was then placed into a 100mm 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°± 2	100	164.6	Negative

The above result showed that the "COCONUT SHELL CHARCOAL BRIQUETTE" sample should not be classified in Division 4.2 – *Substance liable to spontaneous combustion*.

REMARK

The 24 hours temperature profiles were enclosed in pages 3 for your reference. T1 represented temperature in the centre of the sample. T2 represented temperature between the container and the oven wall.

The above findings are based on the tested sample only, this report is valid within 90 days from the date of issued.

PT. Beckjorindo Paryaweksana
Testing Laboratory

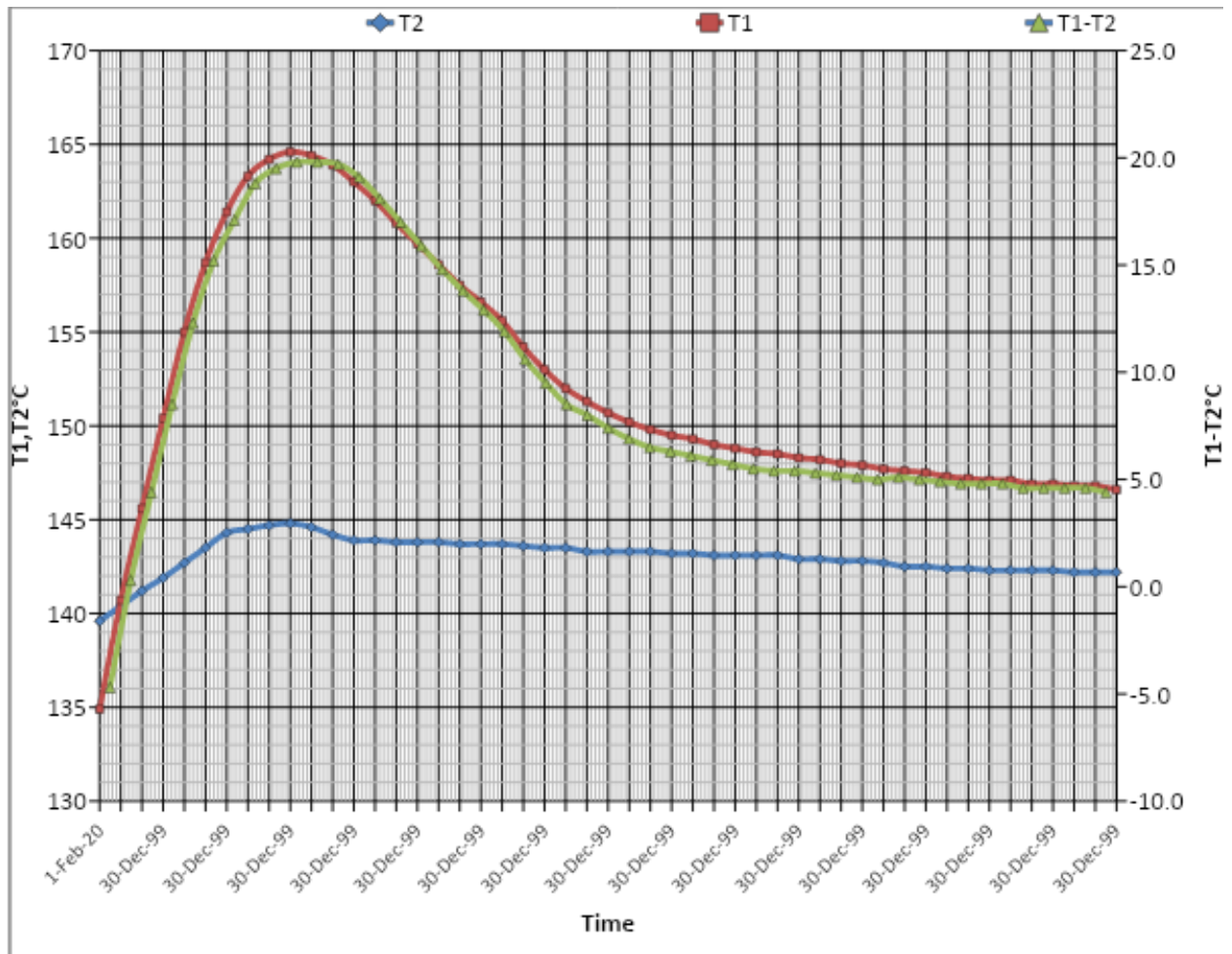
Ade Septiana
Quality Control Manager

Cyandri Damayanti
Head of Laboratory

TEST REPORT**24 hours Temperature Profile of "COCONUT SHELL CHARCOAL BRIQUETTE" at 140°C±2°C (100mm cube)**

START TIME : February 01, 2020 at 09:30
 STOP TIME : February 02, 2020 at 09:30
 ELAPSED TIME : 24 hours
 INTERVAL : 30 minute
 TOTAL READINGS : 49
 THERMOCOUPLE TYPE : K
 SCALING : none

	Max Time Stamp	Max	Average	Min	Min Time Stamp
T1	February 01, 2020 at 16:00	164.6°C	152.1°C	134.9°C	February 01, 2020 at 09:30
T2	February 01, 2020 at 16:00	144.8°C	143.0°C	139.6°C	February 01, 2020 at 09:30
T1-T 2	February 01, 2020 at 16:00	19.8°C	9.1°C	-4.7°C	February 01, 2020 at 09:30



TEST REPORT

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1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not use to indicate or imply that they are applicable to other similar items. In addition, such result must not be used to indicate or imply that BP approves, recommends or endorses the manufacturer, suppliers or user of such product/equipment, or that BP in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
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