

## **TEST REPORT**

210612

DATE : January 23, 2023

CLIENTS REFERENCE : No. 125/BPL/II/23

---

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

### **SUBJECT**

Evaluation of "CHARCOAL POWDER" Sample for Self-Heating Substance Test

### **CLIENTS**

PT. Sabian Berkah Abadi  
Jl. Sindujoyo, Gresik, East Java, Indonesia  
Phone: +62 822 452 685 77  
Email: admin@sabianberkahabadi.com

### **SAMPLE SUBMISSION DATE**

January 20, 2023

### **DESCRIPTION OF SAMPLE**

One packet of Charcoal Powder sample was received

### **DATE OF ANALYSIS**

January 23, 2023 up to January 24, 2023

## **TEST REPORT**

### **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 "CHARCOAL POWDER" Sample

<b>Sample</b>	<b>Oven Temperature (°C)</b>	<b>Cube Size (mm)</b>	<b>Maximum Temperature Reached (°C)</b>	<b>Result</b>
CHARCOAL POWDER	140°± 2	100	164.6	Negative

The above result showed that the "CHARCOAL POWDER" 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.

**Published Date**, 24 January 2023

**Plt. Head of  
Standardization and  
Certification Section**



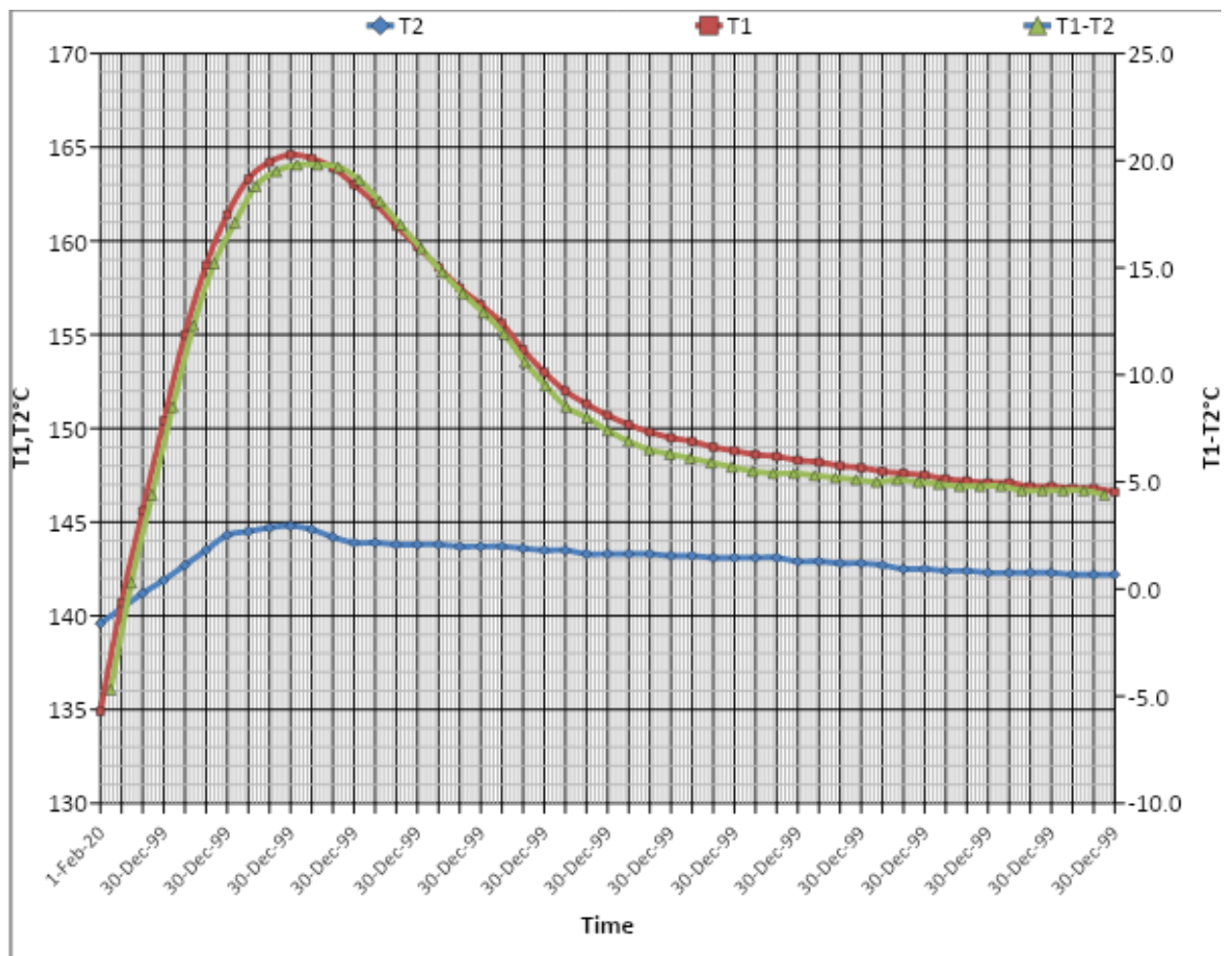
Digitally  
signed by  
Indra Wahyu  
Diantoro

**Indra Wahyu Diantoro,**  
**ST.,MT.**

**TEST REPORT****24 hours Temperature Profile of "CHARCOAL POWDER" 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 <sub>2</sub>	February 01, 2020 at 16:00	19.8°C	9.1°C	-4.7°C	February 01, 2020 at 09:30



## **TEST REPORT**

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 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.
2. The sample/s mentioned in this report is/are submitted/supplied/manufacture by the Client. BP therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
3. Nothing in this report shall be interpreted to mean that BP has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
4. This report shall not be reproduces wholly or in parts and no reference shall be made by the Client to BP or to the report or results furnished by BP in any advertisements or sales production.
5. Unless otherwise stated, the tests were carried out in BP.

=== End of Page ===

