Comparison Study

Engineering Services Group

Product Description: **Coco BBQ Charcoal**

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Executive Summary

At the request of the client, a comparative analysis was conducted on **two (2) styles of Charcoal.** The purpose of this evaluation was to determine how the samples compared to one another in accordance with the testing outlined in the Performance Tests and Methods section of this report.

When comparing the two products, the Coco had a lower percentage of volatile matter, more ash and less moisture than the Kingsford charcoal. The Coco product took longer to ash over and remained at cooking temperature for much longer.

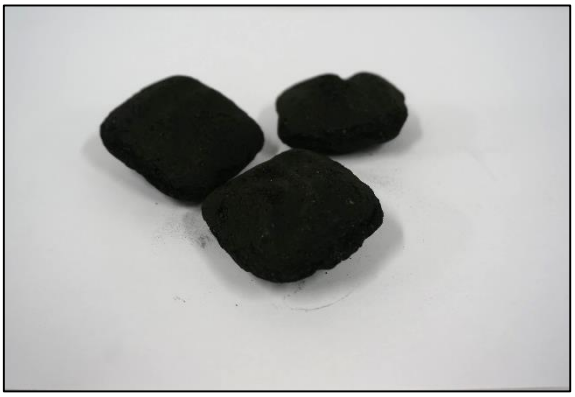
For complete results please see the Results section of this report.

Samples/Products Tested

The following samples were received for testing:



Coco Charcoal Sample As-Received



Kingsford Charcoal Sample As-Received

Performance Tests and Methods

Test	Citation	Criteria
Charcoal Characteristics and Burn Performance	Multiple	The following tests will be conducted on both types of charcoal: Volatile Matter in Charcoal (ASTM D1762) Ash in Charcoal (ASTM D1762) Moisture in Charcoal (ASTM D1762) Ease of Ignition (CPSD-HL-04036-MTHD) Time to Ash Over (CPSD-HL-04036-MTHD) Time at Cooking Temperature (CPSD-HL-04036-MTHD)

Results

Volatile Matter in Charcoal

ASTM D1762

Sample	% Volatile Matter
Coco	49.0%
Kingsford	59.1%

Ash in Charcoal

ASTM D1762

Sample	% Ash
Coco	20.2%
Kingsford	13.0%

Moisture in Charcoal

ASTM D1762

Sample	% Moisture
Coco	3.86%
Kingsford	5.61%

Ease of Ignition

CPSD-HL-04036-MTHD

Sample	Notes	Flameout Time (min)
Coco	Lit easily	4.5
Kingsford	Lit easily	4.5

Time to Ash-Over

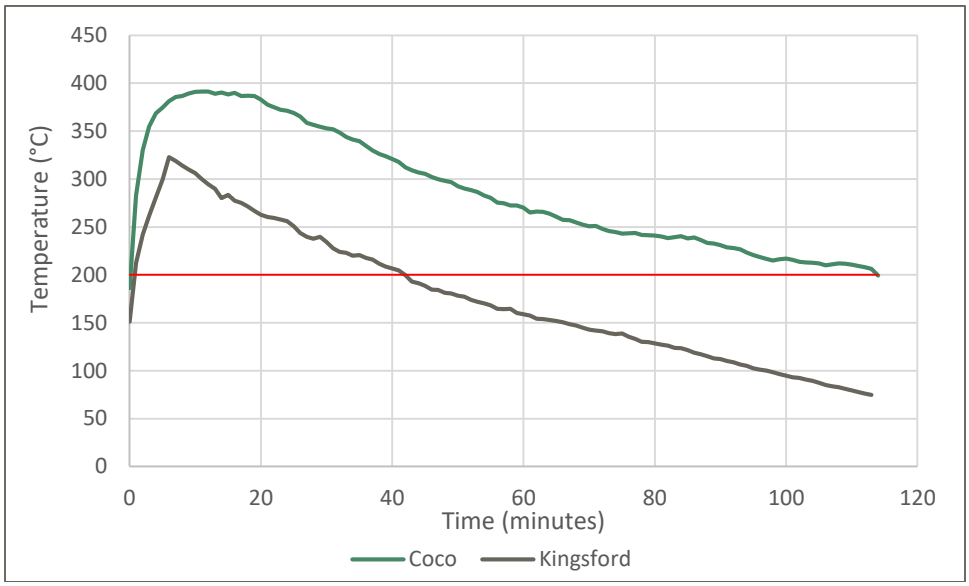
CPSD-HL-04036-MTHD

Sample	% Ash-Over										Ash-Over Time (min)
	5 min	10 min	15 min	20 min	25 min	30 min	35 min	40 min	45 min	50 min	
Coco	5%	10%	15%	20%	25%	30%	40%	50%	70%	95%	50
Kingsford	10%	20%	35%	55%	85%	95%					30

Time at Cooking Temperature

CPSD-HL-04036-MTHD

Sample	Time at Cooking Temperature (min)
Coco	113
Kingsford	41



Note: At the request of the client, this report was revised to include additional data related to the Time at Cooking Temperature test.

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