



FRAG4281

RECIPE - 20CL

CITRONELLA AND LEMONGRASS IN RCX

WWW.CANDLE-SHACK.CO.UK

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DESCRIPTION

CITRONELLA AND LEMONGRASS

TOP NOTES - CITRONELLA,
EUCALYPTUS, LIME

HEART NOTES - CITRONELLA,
LEMONGRASS, LITSEA CUBEBA

BASE NOTES - ORANGE
BLOSSOM, HONEY

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INGREDIENTS FOR EACH CANDLE

[1x 20cl Candle Tin](#)

[16g of Citronella and Lemongrass Essential Oil](#)

[184g of Eco System RCX Wax](#)

[1x LB3 Wick](#)

[1x 15mm Adhesive Wick Pad](#)

WAX

Candle Shack's EcoSystem Rapeseed & Coconut (RCX) is a natural wax blend. It was developed in Europe exclusively for Candle Shack and is made from rapeseed and coconut oil... and nothing else! It is free from paraffin, soy, palm, beeswax and synthetic additives.

VESSEL

Our 20cl tins are made from high quality metal with a welded seam construction and a solid lid, making them perfect for outdoor candle vessels.

Height: 62mm

Diameter: 77mm

Label Depth Circumference: 44mm

WICK

The all-natural and premier Laminate Original Booster candle wicks are made from sappy fruit trees and responsibly sourced.

USAGE RECOMMENDATIONS

- We recommend heating RCX to 60°C to melt.
- Add the fragrance at 60°C and stir for 60 seconds.
- The mixture is ready to pour at 38°C into glasses at room-temperature.
- If the top is uneven once set, you can flash the surface with a heat gun or do a top-up pour to get a clean finish.
- Leave the candle to cure for at least 2 days at 20°C for the best results.

DISCLAIMER

Each report shows test results for a set of candles made by Candle Shack's R&D team for that particular recipe. The test reports are not a guarantee that all candles made to the recipe will burn in exactly the same way. Variables such as ambient temperature, air flow, or the manufacturing process can affect the burning profile of a candle, so it is recommended that candle makers conduct their own testing to ensure that they are satisfied with the performance of their product.

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Technical report on a test set of candles made in Candle Shack R&D department for sooting behaviour testing and fire safety testing

Date of Report: 01/07/22

Testing Period: 10/06/2022 - 16/06/2022

Sample Ref	CWO0001F-1	No. of Samples	3
Candle Name	200g Tin Citronella & Lemongrass Candle, 8% in RCX		
Description	200g Rapeseed & Coconut Wax Fragranced Candle		
Fragrance	Citronella & Lemongrass	Weight per candle	16g
Wax	Candle Shack Ecosystem RCX	Weight per candle	184g
Colour	White	Height	64mm
Wick Type	LB3	Top Diameter (ext)	76mm
Wick Positioning	Centred	Top Diameter (int)	72mm
Surface Defects	None	Base Diameter	76mm

TECHNICAL REPORT

Part 1: SPECIFICATION FOR SOOTING BEHAVIOUR

To evaluate the performance of a test set of candles in a controlled environment against the requirements of **BS EN 15426:2018** (Candles. Specification for sooting behaviour)

Part 2: SPECIFICATION FOR FIRE SAFETY

To evaluate the performance of a test set of candles in a controlled environment against the requirements of **BS EN 15493:2019** (Candles. Specification for fire safety)

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Part 1: SPECIFICATION FOR SOOTING BEHAVIOUR

Requirement

When tested in accordance with clause 9 of EN 15426:2018, the average soot index per hour from three tests (samples) shall be less than 1.0/h

The room temperature during testing was 20±5°C

Wicks were trimmed to 5mm before lighting.

Cycles: 2 x 240 ± 5 min cycles with >60min pause between cycles)

Soot testing was performed in wire mesh cylinder Type 1 (Diameter: 230 ± 10 mm)

Sample Ref.	Total burn time t_m (h)	Hourly soot index Si_h	Average soot index per hour Si_h	Result
CWO0001F-1.1	8.00	0.37	0.43	PASS
CWO0001F-1.2	8.00	0.40		
CWO0001F-1.3	8.00	0.52		

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Part 2: SPECIFICATION FOR FIRE SAFETY

Test Property	Test Method	Requirements	Result
Stability	EN 15493:2019 4.1 (Visual Check)	Candle should not tip over when placed on a 10° incline plane	PASS
Secondary Ignition	EN 15493:2019 4.2 (Visual Check)	No secondary ignition shall occur for more than 10 s	PASS
Flame Height	EN 15493:2019 4.3 (Measurement)	The flame height for all candle types, except for tea lights, shall not exceed 75mm. The flame height for tea lights shall not exceed 30mm	PASS Maximum: 35 mm
Behaviour after extinguishing	EN 15493:2019 4.5.1 (Visual Check)	After extinguishing the candle shall not spontaneously re-light	PASS
	EN 15493:2019 4.5.2 (Measurement)	The wick shall not continue to glow or smoke for an average time of more than 30 s after extinguishing	PASS Average: 4 s
Container Candles	EN 15493:2019 4.6 (Visual Check)	The container shall not crack or break at any time throughout the burning test	PASS

The room temperature during testing was 20±5°C
Wicks were trimmed to 5mm before lighting.

Candle Performance (240 ± 5 min cycles with >60min pause between cycles)

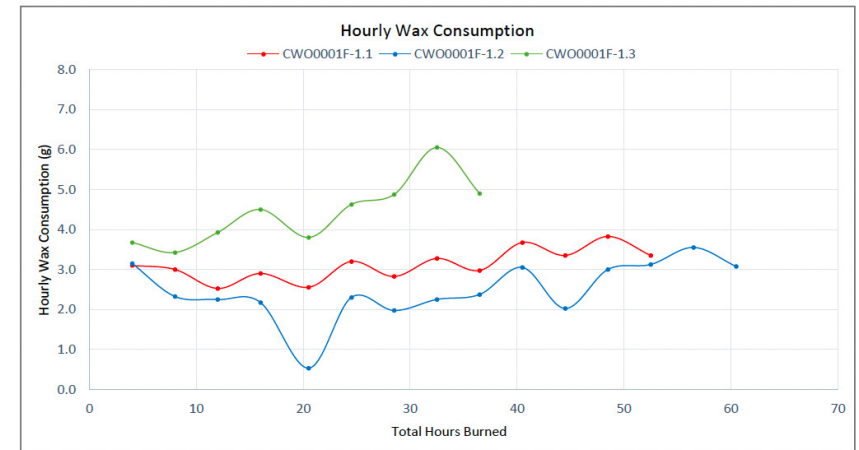
Sample Ref.	Gross Weight (g)	Total Wax Consumed (g)	*Total Burning Time (h)	Wax Consumption Rate (g/h)
CWO0001F-1.1	241.4	163.5	52.5	3.11
CWO0001F-1.2	243.1	148.9	60.5	2.46
CWO0001F-1.3	239.9	161.0	36.5	4.41

*If a candle self-extinguishes during the final burn cycle, the time of self-extinguishing is estimated

Notes and Discussion:

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CHARTS



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Before Burn Top - Sample 1

Before Burn Top - Sample 2

Before Burn Top - Sample 3



Before Burn Front - Sample 1

Before Burn Front - Sample 2

Before Burn Front - Sample 3

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End of Burn Top - Sample 1

End of Burn Top - Sample 2

End of Burn Top - Sample 3

END OF REPORT

David Barn
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