

FRAG1661



THIS RECIPE IS DESIGNED FOR THE NEW MOD. THE FIRST BATCH NUMBER FOR THE NEW MOD IS 176850

RECIPE - 30CL

PEAR AND FREESIA IN S41

CANDLE SHACK

DESCRIPTION

PEAR AND FREESIA

TOP NOTES - BERGAMOT,
LEMON AND PEAR

HEART NOTES - MAGNOLIA,
ORCHID, ROSE, MUGUET

BASE NOTES - MUSK, DRY
AMBER, PATCHOULI

FRAG1661

INGREDIENTS FOR EACH CANDLE

| |
|---|
| 1x 30cl glass jar |
| 15.4g of Pear and Freesia Fragrance Oil |
| 204.6g of Golden Wax S41 |
| 1x Stabilo14 |
| 1x 15mm Adhesive Wick Pad |
| 1x Three Jar Wick Centering Tool |

WAX

Golden Wax S41 is a super soft soybean wax that retains fragrance beautifully and burns incredibly cleanly. This plant wax has a beautiful hot throw and stability while offering excellent ease of wicking. Suitable for vegans, S41 is completely devoid of GMO and synthetic additives.

VESSEL

Our Lotti 30cl glass is manufactured in Italy and meets the highest standards of clarity and tolerance. Height: 90mm
Diameter: 78mm
Internal height: 75mm

WICK

Stabilo candle wicks are one of the best and brightest wicks for home and professional scented candles alike. They are coreless, non-directional flat-braided wicks with a special paper filament woven around them. With their unique configuration, they enable consistent capillary action while ensuring a wick-trimming flame posture. All wicks are 110mm long with a thin paraffin coating for stability.

USAGE RECOMMENDATIONS

- We recommend heating S41 to 60°C to melt.
- Add the fragrance at 60°C and stir until the oil has dissolved.
- The mixture is ready to pour at around 31°C when it starts to look cloudy.
- 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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Candleshack Ltd, Unit A, West Carron Works,
Stenhouse Road, Carron, Stirlingshire, FK2 8DR

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: 23/03/23

Testing Period: 08/03/2023 - 23/03/2023

| | | | |
|------------------|---------------------------------------|--------------------|--------|
| Sample Ref | RCP0095D-1 | No. of Samples | 3 |
| Candle Name | 30cl Pear & Freesia Candle, 7% in S41 | | |
| Description | 220g Soy Wax Fragranced Candle | | |
| Fragrance | Pear & Freesia | Weight per candle | 15.4g |
| Wax | Golden Wax S41 | Weight per candle | 204.6g |
| Colour | Off White | Height | 92mm |
| Wick Type | Stabilo14 | Top Diameter (ext) | 82mm |
| Wick Positioning | Centred | Top Diameter (int) | 76mm |
| 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: 3 x 240 ± 5 min cycles with >60min pause between cycles)

Soot testing was performed in wire mesh cylinder Type 2 (Diameter: 300 ± 10 mm)

| Sample Ref. | Total burn time t_m (h) | Hourly soot index Si_h | Average soot index per hour Si_a | Result |
|--------------|------------------------------|-----------------------------|---------------------------------------|--------|
| RCP0095D-1.1 | 12.00 | 0.08 | 0.07 | PASS |
| RCP0095D-1.2 | 12.00 | 0.04 | | |
| RCP0095D-1.3 | 12.00 | 0.08 | | |



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Part 2: SPECIFICATION FOR FIRE SAFETY

| Test Property | Test Method | Test 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: 25 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: 10 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) |
|--------------|------------------|------------------------|-------------------------|----------------------------|
| RCP0095D-1.1 | 541.3 | 216.2 | 52.0 | 4.16 |
| RCP0095D-1.2 | 532.7 | 195.4 | 48.0 | 4.07 |
| RCP0095D-1.3 | 537.9 | 211.5 | 52.0 | 4.07 |

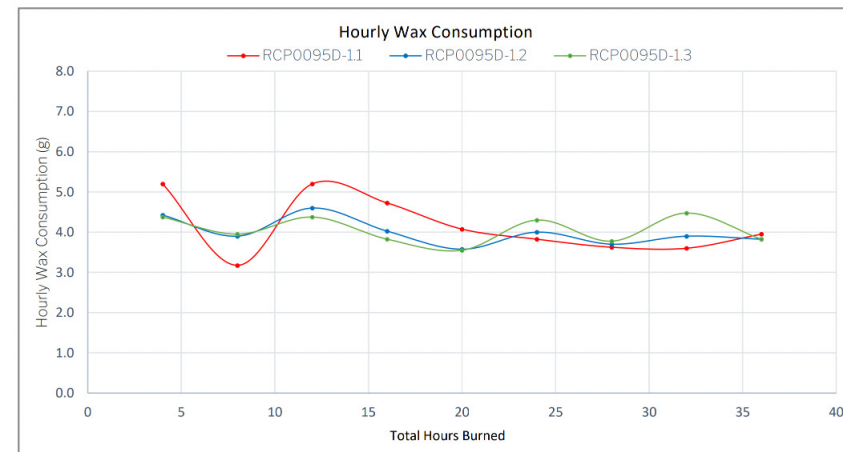
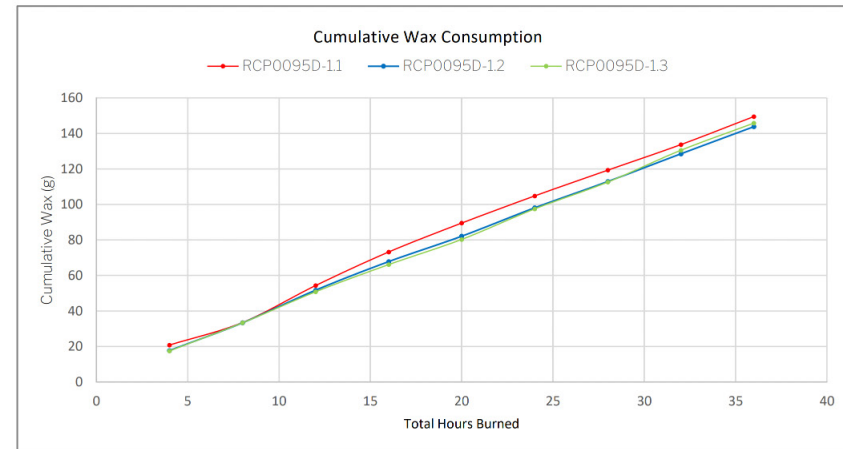
*If a candle self-extinguishes during the final burn cycle, the time of self-extinguishing is estimated.

Notes and Discussion:



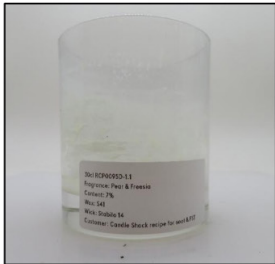
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CHARTS

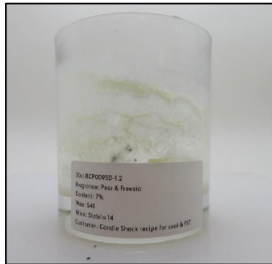


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IMAGE GALLERY



End of Burn Front - Sample 1



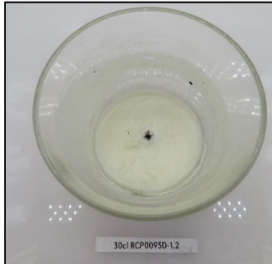
End of Burn Front - Sample 2



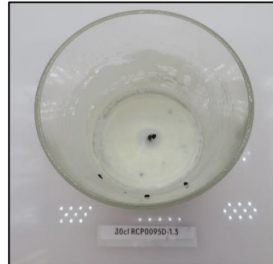
End of Burn Front - Sample 3



End of Burn Top - Sample 1



End of Burn Top - Sample 2



End of Burn Top - Sample 3

END OF REPORT

Patrycja Krajewska

Patrycja Krajewska
Candle Making Technician

