

**RECIPE - 30CL** 

## THE TEMPTRESS IN GOLDEN WAX 464

# CANDLE

## DESCRIPTION



## INGREDIENTS FOR EACH CANDLE

1x 30cl Candle Jar

22g of The Temptress Fragrance Oil

198.0g of Golden Wax 464

1x Stabilo16 Wick

1x 15mm Adhesive Wick Pad

1x Three Jar Wick Centering Tool

### WAX

Made by global wax giant AAK under the Golden Wax brand, GW464 remains the most popular soy container wax on the market. It offers a good hot and cold scent throw as well as excellent glass adhesion and is produced under rigorous ethical and environmental standards.

## 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 464 to 70-75°C to melt.
- Add the fragrance at 60°C and stir for 60 seconds.
- The mixture is ready to pour at 55-60°C into glasses at room temperature (18-20°C).
- If the top is uneven once set, you can flash the sur face with a heat gun.
- 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: 03/02/23 Testing Period: 24/01/2023 - 31/02/2023

| Sample Ref       | RCP0084G-2                                      | No. of Samples     | 3                 |        |  |
|------------------|---|--------------------|-------------------|--------|--|
| Candle Name      | 30cl The Temptress Candle, 10% in GoldenWax 464 |                    |                   |        |  |
| Description      | 220g Soy Wax Fragranced Candle                  |                    |                   |        |  |
| Fragrance        | The Temptress                                   |                    | Weight per candle | 22.0g  |  |
| Wax              | Goldenwax 464                                   |                    | Weight per candle | 198.0g |  |
| Colour           | White   | Height             | 92mm              |        |  |
| Wick Type        | Stabilo 16                                      | 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)

## **CANDLE SHACK**

#### 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 $t_{\rm m}$ (h) | Hourly soot index<br>Si <sub>h</sub> | Average soot index per hour Si <sub>h</sub> | Result |
|--------------|---------------------------------|--------------------------------------|---|--------|
| RCP0084G-2.1 | 12.00                           | 0.81                                 |   |        |
| RCP0084G-2.2 | 12.00                           | 0.16                                 | 0.36  | PASS   |
| RCP0084G-2.3 | 12.00                           | 0.12                                 |   |        |





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#### Part 2: SPECIFICATION FOR FIRE SAFETY

| Test Property                           | Test Method         | Test Requirements                           | Result         |
|---|---------------------|---|----------------|
| Stability                               | EN 15493:2019 4.1   | Candle should not tip over when placed on   | PASS           |
|   | (Visual Check)      | a 10° incline plane                         | FA33           |
| Secondary Ignition                      | EN 15493:2019 4.2   | No secondary ignition shall occur for more  | PASS           |
|   | (Visual Check)      | than 10 s                                   | FASS           |
|   |                     | The flame height for all candle types,      |                |
| Flame Height                            | EN 15493:2019 4.3   | except for tea lights, shall not exceed     | PASS           |
|   | (Measurement)       | 75mm. The flame height for tea lights shall |                |
|   |                     | not exceed 30mm                             | Maximum: 30 mm |
|   | EN 15493:2019 4.5.1 | After extinguishing the candle shall not    | PASS           |
|   | (Visual Check)      | spontaneously re-light                      | 1 733          |
| Behaviour after extinguishing           | EN 15493:2019 4.5.2 | The wick shall not continue to glow or      | DACC           |
|   |                     | smoke for an average time of more than      | PASS           |
|   | (Measurement)       | 30 s after extinguishing                    | Average: 15 s  |
| 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | EN 15493:2019 4.6   | The container shall not crack or break at   | B466           |
| Container Candles                       | (Visual Check)      | 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<br>Consumed (g) | *Total Burning Time<br>(h) | Wax Consumption<br>Rate (g/h) |
|--------------|------------------|---------------------------|----------------------------|-------------------------------|
| RCP0084G-2.1 | 538.8            | 207.4                     | 40.0                       | 5.19                          |
| RCP0084G-2.2 | 543.4            | 209.0                     | 40.0                       | 5.23                          |
| RCP0084G-2.3 | 541.8            | 203.8                     | 40.0                       | 5.10                          |

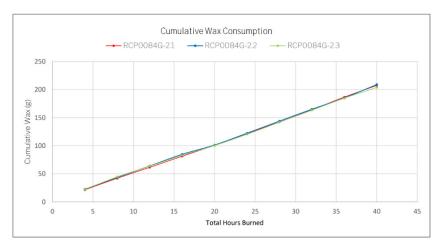
 $^{*}$ If a candle self-extinguishes during the final burn cycle, the time of self-extinguishing is estimated.

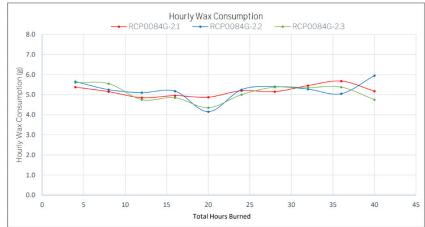
| Notes and Discussion: |
|-----------------------|
|                       |



## CANDLE SHACK

**CHARTS** 







## CANDLE SHACK

#### **IMAGE GALLERY**



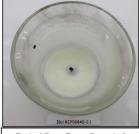
End of Burn Front - Sample 1



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** 

Allan Walsh

Candle Making Technician