

SPECIFICATION FOR FIRE SAFETY & SPECIFICATION FOR SOOTING BEHAVIOUR TEST REPORT

Date:	2 nd October 2020
Reference:	FST0006A
Customer:	Rob Antoun
Candle Description:	Cara Scents 30cl fragranced container candle
Wax:	Soy
Fragrance:	Orchid & Lotus Blossom
No. of candles:	3

- TEST FACILITY: Candle Shack Ltd. Unit A, West Carron Works Stenhouse Rd Carron Stirlingshire FK2 8DR
- Part A: To record burning profile of test candles in a controlled environment and evaluate against requirements of BS EN 15493:2019 (Candles. Specification for Fire Safety)
- Part B:To measure Soot Index of test candles in a controlled environment and
evaluate against requirements of BS EN 15426:2018 (Candles.
Specification for Sooting Behaviour)



SAMPLE SET PHOTOS



Black Candle

White Candle

Base Label



Part A: EN 15493:2019 (Candles. Specification for Fire Safety)

Test Reference	FST0006A
Wax Colour	White
Wick Type	Cotton
No. of wicks	1
Burning cycles	4-hour cycles, 1-hour pause

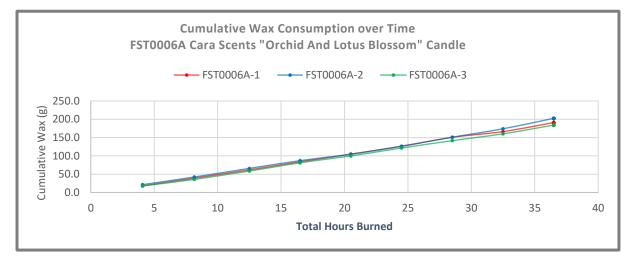
TESTING PERFORMED				
Sample Ref	FST0006A-1	FST0006A-2	FST0006A-3	
Gross Weight (g)	494.7	497.0	502.1	
Stability (10° slope) *	Pass	Pass	Pass	
Secondary ignition (no more than 10s)	Pass (none)	Pass (none)	Pass (none)	
Maximum flame height (max 75mm)	20-25 mm	25-30 mm	25-30 mm	
Re-ignition after extinguishing	Pass	Pass	Pass	
Aftersmoke when extinguished (max 30s)	Pass (<10s)	Pass (<10s)	Pass (<10s)	
Total wax consumed (g)	190.9	202.5	184.1	
Total burning time (hours)	36.5	36.5	36.5	
Burn Rate (g/h)	5.23	5.55	5.05	
RESULT	PASS			

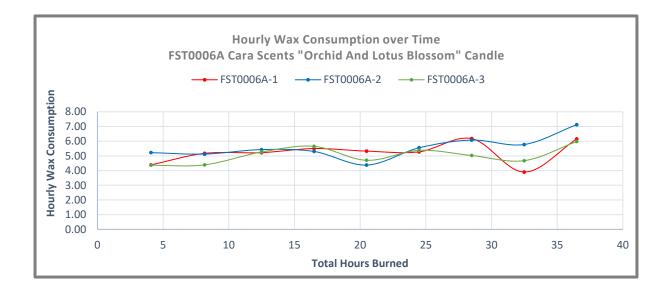
OBSERVATIONS

- Room temperature during testing was 18 25°C
- Two of the candles in the test set were presented in black candle glasses, and the third was in a white glass, but the labels were identical and all candles in the test set burned consistently



CHARTS

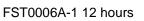




S CANDLE SHACK

PHOTOS







FST0006A-2 12 hours



FST0006A-3 12 hours



FST0006A-1 Flame



FST0006A-2 Flame



FST0006A-3 Flame



Part B: EN 15426:2018 (Candles. Specification for Sooting Behaviour)

TESTING PERFORMED				
Sample Ref	FST0006A-1	FST0006A-2	FST0006A-3	
Total measuring time, t_m (h)	12.5	12.5	12.5	
Soot Index, Si	11.59	6.21	6.00	
Soot Index per hour, Si _h	0.927	0.497	0.480	
Average Soot Index from 3 samples (Acceptance criteria is <1.0/h))		0.634		
Result (PASS/FAIL)		PASS		

TEST NOTES

- Room temperature during testing was 18 25°C
- Total measuring time was 12h 30m.

Report authorised by:	David Barn
Position:	Head of Product Development
Signed	DRJam