

TEST REPORT

Reference No. WTF19F05031189A3C

Applicant: Mid Ocean Brands B.V.

Address 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,

Hong Kong

Manufacturer 112213

Sample Name: Set of 6 tealights, 2 Candles with glass holder, 4 candles, Decoration

tealight holder, Scented candle in glass, Transparent glass holder with

tealight

Model No. CX1457, CX1458, CX1459, CX1460, CX1461, MO9030, MO9734

Test Requested..... According to customer requirements, the following tests are performed.

1) Candle Fire Safety Labeling (BS EN15494:2007)

2) Burning Safety (BS EN 15493:2007)

3) Soot Release (BS EN 15426:2007)(per applicant's requirement)

4) Soot Release (BS EN 15426:2018)

Test Conclusion..... Please refer to next page (s)

Date of Receipt sample.... 2019-07-17

Date of Test 2019-07-17 to 2019-07-26

Date of Issue 2019-08-01

Test Result Please refer to next page (s)

Remarks:

The results shown in this test report refer only to the sample(s) tested; this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

Prepared By:

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SERVICEPPROVED by:

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Test Results:

1. Candle Fire Safety Labeling (BS EN 15494:2007)

Test standard: BS EN 15494:2007 Candles – Products Safety Labels

Number of sample(s) tested: Each style One set product with full packaging

Clause	Requirement	Finding	Result
2.1	Safety information - Either be displayed in the format of pictogram or text - Visible and legible on the packaging or product - If not practical, an instruction leaflet shall be available at the point of sale -ext information shall be given in their own	See Test Data	PASS for all style
TEK WALTE	national language(s) for the selling markets Layout of a product safety label - Shall be in Form 1 or Form 2 as stated in the standard - Safety information symbol or text shall be located below or beside the general warning sign	Form 1	PASS for all style
Whitek Whitek	Safety information (as symbol (Form 1) or text (Form 2)) Safety information (as symbol (Form 1) or text (Form 2))	Safety Information Symbol <u>beside</u> General Warning Sign	Whitek whitek white white white white white



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Test Data:

In the form of Pictogram	In the form of Text	Finding
Mandatory safety information	THE THE LIFE OF	it with with
	Never leave a burning candle unattended	In Pictogram Present
	Burn candle out of the reach of children and pets	In Pictogram Present
	Always leave at least xx cm between burning candles. Remark: xx - minimum safety distance recommended by the manufacturer	In Pictogram Present
	Do not burn candles on or near anything that can catch fire.	In Pictogram Present
Optional Safety Information	The transfer of the same of th	
	Do not place candles in a draught	Not Present
	Do not place candles near a source of heat	Not Present
*	Place candles in an upright position	Not Present
	Trim wick to about 1cm before lighting	Text Form Present (See note#)



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the form of Pictogram	In the form of Text	Finding
	Always snuff out the flame. Do not blow it out	Text Form Present (See note#)
	Always use a candleholder	Text Form Present (See note#)
	Keep the wax pool clear of matches and other debris to avoid flaring	Text Form Present (See note#)
	Only use tea light in holders and warming stoves with sufficient ventilation	Not Present
	Do not move a burning candle	Text Form Present (See note#)
	Use a suitable container as these candles liquefy when burning	Not Present
	Never use liquid to extinguish	Not Present

Note #: Equipment meaning but not the exactly wording.



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2. 1 Burning Safety (BS EN 15493:2007)

Test Standard: BS EN 15493:2007 Candles -Specification for Fire Safety

Number of sample(s) tested: 3 pieces of each style (H-1,H-4) candle for testing.

Instruction label: Provided, Candle wicks are trimmed in accordance with the label's instructions

Burn test cycle: Burn candle continuously until self extinguishing

Clause	Requirement	Result
4.1	Stability - Free-standing candles shall not tip over when tested on a slope of 10 °	PASS
4.2	Secondary ignition - No secondary ignition shall occur for more than 10 s	PASS
4.3	Flame height - Maximum 75 mm for all candles except tea lights - Maximum 30 mm for tea lights	PASS
4.4	Behaviour by self-extinguishing at the end of the burning process - Shall self extinguish at the end of the burning time - Shall not cause the container to break (if applicable)	PASS
4.5	Re-ignition after extinguishing The wick shall not continue to glow or smoke for more than 20 s after extinguishing The candle shall not spontaneously re-light after extinguishing	PASS

Abbreviation: NA = Not Applicable

The sample(s) were resubmitted on Jun. 04, 2019 to retest.



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Test Data:

Sample ID	Wax weight (in net and g)	Size (mm)
H-1-1	12.1	38×16
H-1-2	12.2	38×16
H-1-3	12.7	38×16

2 M/L 12 V	Flame height (mm)		Total burn	Percentage of	Wax spillage	Afterglow
Sample ID	Minimum	Maximum	time (hours)	wax burnt (%)	(%)	(s)
H-1-1	15	20	6	95.9	LIER TIER.	6,00
H-1-2	5	15	7	96.7	70.	5
H-1-3	5 11	15	6	94.5	EL NEEL ON	7

Sample ID	Wax weight (in net and g)	Size (mm)	
H-4-1	8.4	39×11	
H-4-2	8.3	39×11	
H-4-3	7.9	39×11	

Sample ID		ight (mm)	Total burn	Percentage of	Wax spillage	Afterglow
المان المان	Minimum	Maximum	time (hours)	wax burnt (%)	(%)	(s)
H-4-1	10	20	3 mi	98.8	41, - 41,	7
H-4-2	15	20	3	98.8	LIEK MITE	mil 7 mil
H-4-3	10	20	3	98.7	211.	8

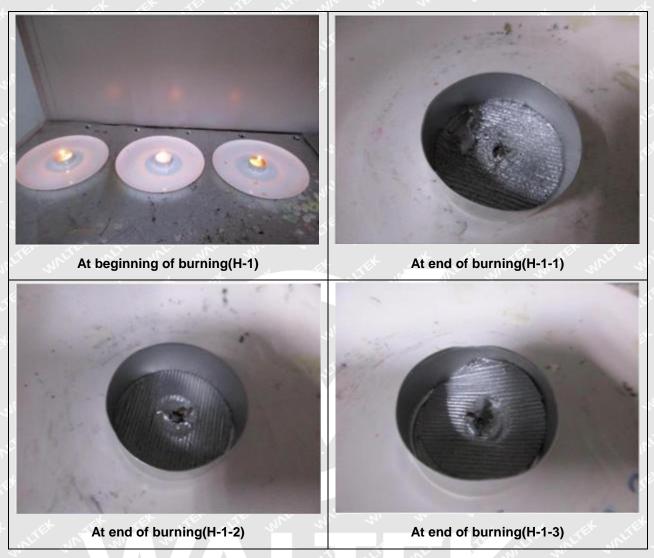
Abbreviation: * = Failed item; NA = Not Applicable





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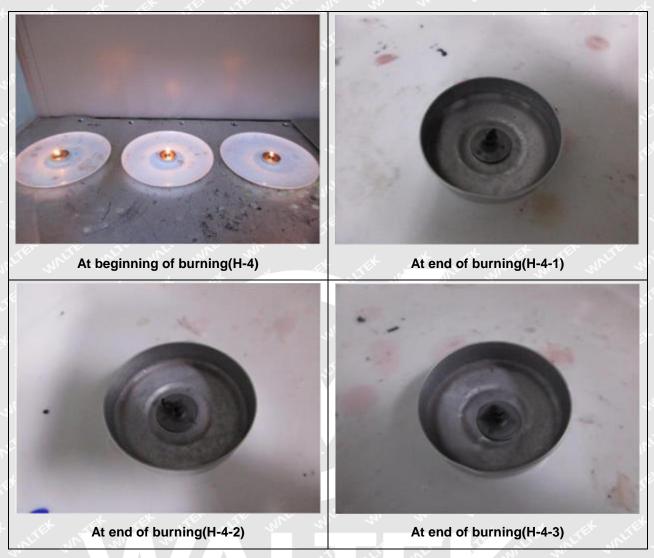
Exhibit:





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Exhibit:





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2.2 Burning Safety (BS EN 15493:2007)

Test Standard: BS EN 15493:2007 Candles -Specification for Fire Safety

Number of sample(s) tested: 3 pieces (H-2) of candle for testing.

Instruction label: Provided, Candle wicks are trimmed in accordance with the label's instructions

Burn test cycle: Burn candle continuously until a residual height of 10mm

Clause	Requirement	Result
4.1	Stability - Free-standing candles shall not tip over when tested on a slope of 10 °	NA NA
4.2	Secondary ignition - No secondary ignition shall occur for more than 10 s	PASS
4.3	Flame height - Maximum 75 mm for all candles except tea lights - Maximum 30 mm for tea lights	PASS
4.4	Behaviour by self-extinguishing at the end of the burning process - Shall self extinguish at the end of the burning time - Shall not cause the container to break (if applicable)	et mei NAmeitet
4.5	Re-ignition after extinguishing - The wick shall not continue to glow or smoke for more than 20 s after extinguishing - The candle shall not spontaneously re-light after extinguishing	PASS

Abbreviation: NA = Not Applicable

The sample(s) were resubmitted on Jun. 04, 2019 to retest.



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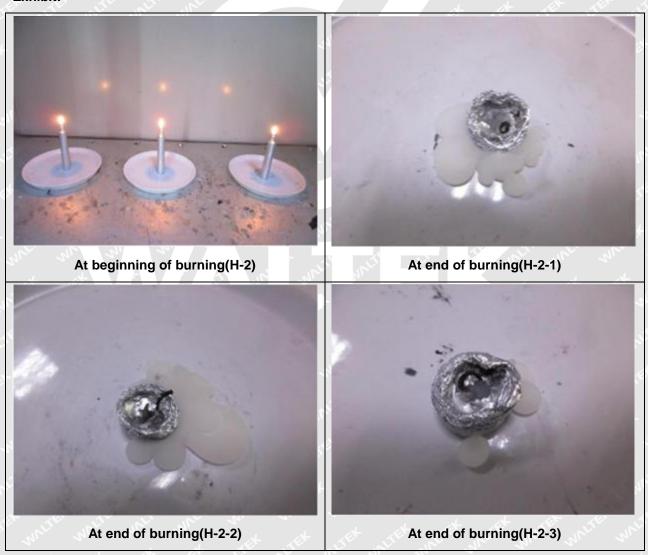
Test Data:

Sample ID	Wax weight (in net and g)	Size (mm)
H-2-1	28.3	20×126
H-2-2	28.5	20×126
H-2-3	27.4	20×126

0 3/1 10	Flame height (mm)		Total burn Percenta	Percentage of	Wax spillage	Afterglow
Sample ID	Minimum	Maximum	time (hours)	wax burnt (%)	(%)	(s)
H-2-1	30	55	4	TEX - TEX	0.7	5,000
H-2-2	40	65	4	17. 28. 21	0.0	7
H-2-3	40	55	4	er ter w	1.8	10

Abbreviation: * = Failed item; NA = Not Applicable

Exhibit:



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2.3 Burning Safety (BS EN 15493:2007)

Test Standard: BS EN 15493:2007 Candles -Specification for Fire Safety

Number of sample(s) tested: 3 pieces (H-3) of candle for testing.

Instruction label: Not provided, Candle wicks are trimmed in accordance with the label's

instructions

Burn test cycle: Burn candle 4 hours, pause for minimum 1 hour

Continue to burn in cycles until a residual height of 20mm

Clause	Requirement	Result
4.1	Stability - Free-standing candles shall not tip over when tested on a slope of 10 °	PASS
4.2	Secondary ignition - No secondary ignition shall occur for more than 10 s	PASS
4.3	Flame height - Maximum 75 mm for all candles except tea lights - Maximum 30 mm for tea lights	PASS
4.4	Behaviour by self-extinguishing at the end of the burning process - Shall self extinguish at the end of the burning time - Shall not cause the container to break (if applicable)	NA THE IN
4.5	Re-ignition after extinguishing - The wick shall not continue to glow or smoke for more than 20 s after extinguishing - The candle shall not spontaneously re-light after extinguishing	PASS

Abbreviation: NA = Not Applicable

The sample(s) were resubmitted on Jun. 04, 2019 to retest.



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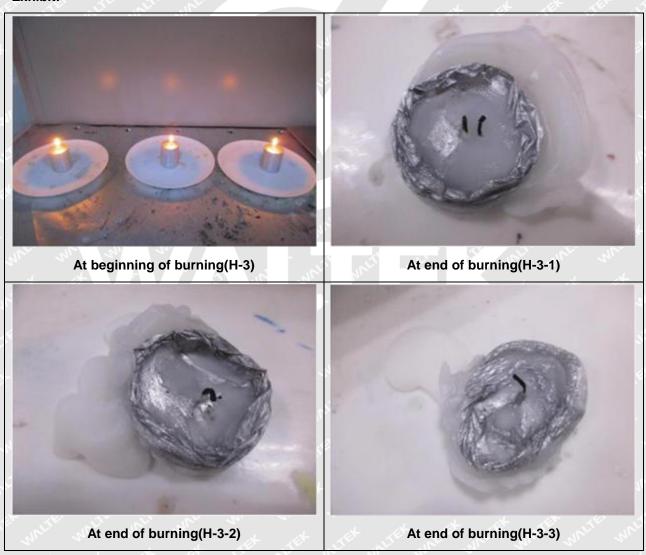
Test Data:

Sample ID	Wax weight (in net and g)	Size (mm)
H-3-1	54.5	40×50
H-3-2	56.1	40×50
H-3-3	55.6	40×50

Sample ID	Flame height (mm)		Total burn	Percentage of	Wax spillage	Afterglow
	Minimum	Maximum	time (hours)	wax burnt (%)	(%)	(s)
H-3-1	20	35	6	TEX - TEX	19.3	7,000
H-3-2	25	35	5	17. 28. 21	16.2	5
H-3-3	20	30	6	er ter w	10.8	7

Abbreviation: * = Failed item; NA = Not Applicable

Exhibit:



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3.1 Soot Release (BS EN 15426:2007, per applicant's requirement)

Test Standard: BS EN 15426:2007 Candles -Specification for Sooting Behaviour

Number of sample(s) tested: 3 pieces of candle

Instruction label: No visible defects was found on all tested samples

Burn test cycle: The average soot index from three tests (samples) shall be less than 1.0/hour, no

individual sample shall exceed 2.0/hour

Tested Sample	H-1-1	H-1-2	H-1-3
Original candle diameter (mm)	38	38	38
Original candle height (mm)	16	16	-16
Net Candle weight (g)	12.1	12.2	12.7
Total measuring time, tm (hours)	m 6 m	6	6
Soot Index, Si	0.27	0.66	0.39
Average soot index per hour, Sih (=Si / tm) Note: Acceptance criteria: < 2.0/hour	0.04	0.11	0.06
Average Soot Index from 3 samples Note: Acceptance criteria: < 1.0/hour	EX WALTEX	0.07	WE MUT MUT

3.2 Soot Release (BS EN 15426:2007, per applicant's requirement)

Test Standard: BS EN 15426:2007 Candles -Specification for Sooting Behaviour

Number of sample(s) tested: 3 pieces of candle

Instruction label: No visible defects was found on all tested samples

Burn test cycle: The average soot index from three tests (samples) shall be less than 1.0/hour, no

individual sample shall exceed 2.0/hour

Tested Sample	H-3-1	H-3-2	H-3-3
Original candle diameter (mm)	40	40	40
Original candle height (mm)	50	50	50
Net Candle weight (g)	55.1	55.8	56.5
Total measuring time, tm (hours)	8 1	8	8
Soot Index, Si	0.72	0.62	0.66
Average soot index per hour, Sin (=Si / tm) Note: Acceptance criteria: < 2.0/hour	0.09	0.08	0.08
Average Soot Index from 3 samples Note: Acceptance criteria: < 1.0/hour	ex unitex whitex	0.08	mri, mr.



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3.3Soot Release (BS EN 15426:2007, per applicant's requirement)

Test Standard: BS EN 15426:2007 Candles -Specification for Sooting Behaviour

Number of sample(s) tested: 3 pieces of candle

Instruction label: No visible defects was found on all tested samples

Burn test cycle: The average soot index from three tests (samples) shall be less than 1.0/hour, no

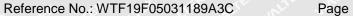
individual sample shall exceed 2.0/hour

Tested Sample	H-4-1	H-4-2	H-4-3
Original candle diameter (mm)	39	39	39
Original candle height (mm)	11	TEXT 11X LITE	mir 11 nii w
Net Candle weight (g)	8.5	8.4	8.6
Total measuring time, tm (hours)	2.6	2.4	2.5
Soot Index, Si	1.05	0.72	0.59
Average soot index per hour, Sin (=Si / tm) Note: Acceptance criteria: <_ 2.0/hour	0.40	0.30	0.24
Average Soot Index from 3 samples Note: Acceptance criteria: < 1.0/hour	it with	0.31	ex outex writes

Sample Photo:









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4. Soot Release (BS EN 15426:2018)

Test Standard: BS EN 15426:2018 Candles -Specification for Sooting Behaviour

Number of sample(s) tested: 3 pieces

Instruction label: No visible defects was found on all tested samples

Burn test cycle: The average soot index from three tests (samples) shall be less than 1.0/hour.

Tested Sample	1	2	dt (3 (1)
Original candle diameter (mm)	20	20	20
Original candle height (mm)	127.0	127.0	127.0
Net Candle weight (g)	32.4	31.5	31.8
Total measuring time, tm (hours)	m, 3m, m	3	4
Soot Index, Si	0.46	0.26	3.25
Average soot index per hour, Sin (=Si / tm)	0.15	0.09	0.81
Average Soot Index from 3 samples Note: Acceptance criteria: < 1.0/hour	ex liex	0.35	LIER WALTER WALTE

5. Burning Safety (BS EN 15493:2007)

Test Standard: BS EN 15493:2007 Candles -Specification for Fire Safety

Number of sample(s) tested: 3 pieces of candle for testing.

Instruction label: Not provided, Candle wicks are trimmed in accordance with the label's

instructions

Burn test cycle: Burn candle continuously until a residual height of 10mm

Clause	Requirement	Result
4.1	Stability - Free-standing candles shall not tip over when tested on a slope of 10 °	NA NA
4.2	Secondary ignition - No secondary ignition shall occur for more than 10 s	PASS
4.3	Flame height - Maximum 75 mm for all candles except tea lights - Maximum 30 mm for tea lights	PASS
4.4	Behaviour by self-extinguishing at the end of the burning process - Shall self extinguish at the end of the burning time - Shall not cause the container to break (if applicable)	NA NA
4.5	Re-ignition after extinguishing - The wick shall not continue to glow or smoke for more than 20 s after extinguishing - The candle shall not spontaneously re-light after extinguishing	PASS



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Abbreviation: NA = Not Applicable

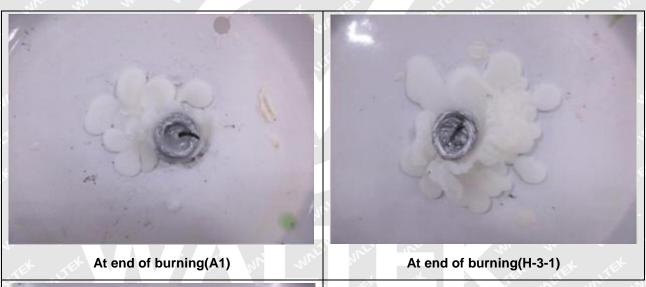
Test Data:

Sample ID	Wax weight (in net and g)	Size (mm)
A10 CO	31.1 0	20×126
ALL JULY VAZ VIII VIII	30.9	20×126
A3 A	31.3	20×126

	Flame height (mm)		Total burn	Percentage of	Wax spillage	Afterglow
Sample ID	Minimum	Maximum	time (hours)	wax burnt (%)	(%)	(s)
A1	30	60	3.75	Life Will W	24.8	4s
A2	30	40	2	1	50.8	7s 7s
A3	35	50	- 4	and an	0.6	4s

Abbreviation: * = Failed item; NA = Not Applicable **Remark:** CTT190712461EN is replaced by this report.

Exhibit:





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Sample Photo:



===== End of Report =====

Total and the last total and the