

Test Report

No.: NBHL241202923001CD

Date: JAN. 03, 2025

Page: 1 of 6

HANGZHOU AIKUN TECHNOLOGY CO., LTD
1706, BUILDING 4, PINGGAO ENTREPRENEURSHIP CITY , LIANGZHU STREET, YUHANG
DISTRICT, HANGZHOU CITY, ZHEJIANG PROVINCE

The following sample(s) was/were submitted and identified by the client as:

Sample Description : CRYSTAL GLASS SCENTED CANDLE

Sample Quantity : PLEASE REFER TO THE FOLLOWING PAGE(S)

Sample Receiving Date : DEC. 27, 2024

Testing Period : DEC. 27, 2024 TO JAN. 03, 2025

Test Requested	Result
EN 15493: 2019 CANDLES- SPECIFICATION FOR FIRE SAFETY	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Ruby Gu

Ruby Gu
Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Ningbo Branch Harbin

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Test Conducted:

EN 15493: 2019 CANDLES- SPECIFICATION FOR FIRE SAFETY

Number of tested sample: 3 pcs

Test Condition: 20±5°C

Description of samples

Sample	Weight(g)	Dimension of candle (mm)
1#	235.88	74.21(D) x 49.37(H)
2#	238.26	74.36(D) x 49.56(H)
3#	237.84	74.25(D) x 49.60(H)

Clause	Test Method/ Requirement	Rating/ Result								
<u>4.1 Stability</u>	Requirement: Freestanding candles, container candles and candles that are sold together with a holder or other accessories shall not tip over when tested on a slope of (10±0.2)° 1) Place the prepared, unlit candle on an incline plane in the orientation most likely to cause tipping at (10±0.2) ° from level. Rotation around the vertical axis of the candle may be necessary to determine the stability of an asymmetrical candle. 2) Observe any overturning or rocking <table><tr><th>Sample No.</th><th>Overturn</th></tr><tr><td>1#</td><td>No</td></tr><tr><td>2#</td><td>No</td></tr><tr><td>3#</td><td>No</td></tr></table>	Sample No.	Overturn	1#	No	2#	No	3#	No	Pass
Sample No.	Overturn									
1#	No									
2#	No									
3#	No									
<u>4.2 Secondary ignition</u>	Requirement: No second ignition shall occur for more than 10s. 1) Place each candle in an upright position on a heat resistant, non-flammable surface. 2) Position the wick in an upright position and light the candle without contaminating the candle by the ignition source. 3) Visual observations are made 5 min after ignition, at least at hourly intervals throughout the burning period, at extinguishing and after self-extinguishing, when applicable. <table><tr><th>Sample No.</th><th>Secondary ignition</th></tr><tr><td>1#</td><td>No</td></tr><tr><td>2#</td><td>No</td></tr><tr><td>3#</td><td>No</td></tr></table>	Sample No.	Secondary ignition	1#	No	2#	No	3#	No	Pass
Sample No.	Secondary ignition									
1#	No									
2#	No									
3#	No									
<u>4.3 Flame height</u>	Requirement:	Pass								



SGS-CSTC Shanghai Technical Services Co., Ltd.
Ningbo Branch

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Clause	Test Method/ Requirement	Rating/ Result																
	The flame height for all candle types, except tea lights, shall not exceed 75mm. The flame height for tea lights shall not exceed 30mm. 1) Place each candle in an upright position on a heat resistant, non-flammable surface. 2) Position the wick in an upright position and light the candle without contaminating the candle by the ignition source. 3) The flame height is measured and recorded 5 min after ignition and before extinguishing in each burning period. If the flame appears to approach the maximum allowable flame height at other times, it shall also be measured and recorded. For candles with a total burning time less than one specified burning period, the flame height is measured and recorded at least twice. <table><tr><th>Sample No.</th><th>Maximum flame height (mm)</th></tr><tr><td>1#</td><td>30</td></tr><tr><td>2#</td><td>33</td></tr><tr><td>3#</td><td>36</td></tr></table>	Sample No.	Maximum flame height (mm)	1#	30	2#	33	3#	36									
Sample No.	Maximum flame height (mm)																	
1#	30																	
2#	33																	
3#	36																	
4.4 Self-extinguishing	Requirement: 4.4.1 To prevent the ignition of the surface underneath, freestanding candles marketed as self-extinguishing shall self-extinguish at the end of the burning time. The candles shall neither burn a paper placed underneath nor cause any scorch marks on it during the whole burning test. 4.4.2 To prevent the ignition or cracking of a supporting holder, non-freestanding candles marketed as self-extinguishing shall self-extinguish at a residual height of ≥12mm in case of candles with a diameter of ≤ 14 mm and at a residual height of ≥18mm in case of other candles. 1) Place each candle in an upright position on a heat resistant, non-flammable surface. 2) Position the wick in an upright position and light the candle without contaminating the candle by the ignition source. 3) Visual observations are made 5 min after ignition, at least at hourly intervals throughout the burning period, at extinguishing and after self-extinguishing, when applicable. For freestanding candles <table><tr><th>Sample No.</th><th>self-extinguish</th><th>burn a paper</th><th>any scorch marks on paper</th></tr><tr><td>1#</td><td>Yes</td><td>No</td><td>No</td></tr><tr><td>2#</td><td>Yes</td><td>No</td><td>No</td></tr><tr><td>3#</td><td>Yes</td><td>No</td><td>No</td></tr></table>	Sample No.	self-extinguish	burn a paper	any scorch marks on paper	1#	Yes	No	No	2#	Yes	No	No	3#	Yes	No	No	Pass
Sample No.	self-extinguish	burn a paper	any scorch marks on paper															
1#	Yes	No	No															
2#	Yes	No	No															
3#	Yes	No	No															



Clause	Test Method/ Requirement	Rating/ Result												
4.5 Behaviour after extinguishing	Requirement: 4.5.1 After extinguishing the candle shall not spontaneously re-light. 4.5.2 The wick shall not continue to glow or smoke for an average time of more than 30 s after extinguishing. 1) Place each candle in an upright position on a heat resistant, non-flammable surface. 2) Position the wick in an upright position and light the candle without contaminating the candle by the ignition source. 3) Measure the aftersmoke time at the end of each burning period, except when self-extinguishing. The average aftersmoke time is the average of all single measurements of the aftersmoke time for each candle and each burning period. <table border="1"> <thead> <tr> <th>Sample No.</th><th>Spontaneously re-light</th><th>Aftersmoke time (s)</th></tr> </thead> <tbody> <tr> <td>1#</td><td>No</td><td>10</td></tr> <tr> <td>2#</td><td>No</td><td>14</td></tr> <tr> <td>3#</td><td>No</td><td>9</td></tr> </tbody> </table>	Sample No.	Spontaneously re-light	Aftersmoke time (s)	1#	No	10	2#	No	14	3#	No	9	Pass
Sample No.	Spontaneously re-light	Aftersmoke time (s)												
1#	No	10												
2#	No	14												
3#	No	9												
4.6 Container candles	Requirement: The container shall not crack or break at any time throughout the burning test. 1) Place each candle in an upright position on a heat resistant, non-flammable surface. 2) Position the wick in an upright position and light the candle without contaminating the candle by the ignition source. 3) Visual observations are made 5 min after ignition, at least at hourly intervals throughout the burning period, at extinguishing and after self-extinguishing, when applicable.	Pass												

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- The declaration of conformity is based on acceptance limits chosen based on simple acceptance ($w = 0$, $AL = TL$).
Statements of conformity are reported as:
Passed - The measured values were observed in tolerance at the points tested.
Failed - One or more measured values were observed out of tolerance at the points tested.



Sample Photo:

Received sample



Test sample



During testing sample 1 (EN 15493)



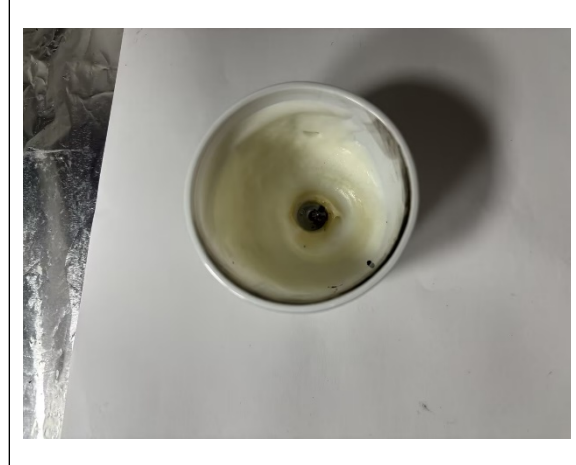
After testing sample 1 (EN 15493)



During testing sample 2 (EN 15493)



After testing sample 2 (EN 15493)



During testing sample 3 (EN 15493)



After testing sample 3 (EN 15493)



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End of Report



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