

ICS 71.100.35

QB

**LIGHT INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

QB/T 2119-2007

**Basic candle
(English Translation)**

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Foreword

This standard is a revision of QB/T 2119-1995 "Basic candles".

Compared with QB/T 2119-1995, the main changes of this standard are as follows.

- This standard was compiled, with reference to the German standard RAL-GZ 041/1 (2005) "General Quality and Inspection Specifications for Candles", American Society for Testing and Materials Standard ASTM F 2417-2004 "Standard Specification for Fire Safety for Candles";
- ADD the indicator of odor;
- CHANGE the original wax texture index into the appearance index;
- CHANGE the original vertical skewness index into the product placement stability index;
- ADD the combustion performance index;
- ADD the flame height index;
- ADD the combustion afterglow index;
- ADD the light stability index;
- ADD the net content index.

This standard was proposed by the China National Light Industry Council.

This standard shall be under the jurisdiction of the National Standardization Center for Toothpaste and Wax Products.

Drafting organizations of this standard. National Light Industry Toothpaste Wax Products Quality Supervision and Testing Center, Qingdao Jinwang Applied Chemical Co., Ltd., Zhongshan Zhongnan Candle Co., Ltd., Dongguan Quanwei Candle Co., Ltd., Dingzhou Jinqiao Candle Co., Ltd.

1 Scope

This standard specifies the terms and definitions, requirements, test methods, inspection rules and signs, packaging, transportation, storage, shelf life of basic candles.

This standard applies to candles, which are processed with paraffin wax and/or vegetable wax as the main raw material.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard; however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 191 Packaging - Pictorial marking for handling of goods

3 Terms and definitions

The following terms and definitions apply to this standard.

4.1 Sensory requirements

Sensory requirements shall meet the requirements of Table 1.

4.2 Physical and chemical requirements

The physical and chemical requirements shall meet the requirements of Table

2.

4.3 Net content

The net content shall comply with the provisions of Order No.75 of the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China.

5.1.1 Appearance

Take 4 samples. Perform visual inspection.

5.2.1 Exposed length of wax core

Take 4 samples. Use a vernier caliper to measure the candle. Each candle shall meet the requirements of the standard. Take the maximum value of the test results among the 4 candles, as the final test result.

5.2.4 Melting point

Determine it in accordance with the provisions of GB/T 2539.

5.2.5 Burning performance

Take 4 samples. Place them at an interval of 200 mm, at a room temperature of 15°C ~ 25°C, without strong air convection. After lighting the candle for 15 min, observe the burning situation, until it is completely extinguished. The flame shall be stable, burning silently, without self-extinguishing, no wax flow (a small amount of wax flow is allowed, but not flowing out of the candle); there is no black smoke, which is invisible to the naked eye.

5.2.6 Flame height

Take 4 samples. Burn it for 30 min and 1 h, respectively, at room temperature of 15 °C ~ 25 °C, without strong air convection. Respectively use a steel ruler, to measure the height of the lowest point and highest point of the flame. Take the maximum of the two test results as the final test result.

5.2.8.1 Main instrument

Constant temperature incubator. Accuracy ± 1 °C.

5.2.8.2 Measurement procedure

Take a small package of samples (not less than 4 pcs). Place it flat in a constant temperature incubator at (35 ± 1) °C. Keep it for 24 hours. Take it out to restore to room temperature. Observe whether there is merging, deformation, discoloration, waxing.

5.3 Net content

Take 10 samples for weighing. Compare with the marked net content. It shall meet the requirements of Order No.75 of the General Administration of Quality Supervision, Inspection and Quarantine.

6.1 Inspection classification

Product inspection is divided into exit-factory inspection and type inspection.

6.1.3 Group-batch and sampling

The products of the same batching and same specification form a batch. From each batch of products, randomly take the sample which meet the inspection quality requirements, which shall pass the inspection of the inspection department of the factory, AND be accompanied with product certificate, before leaving the factory.

6.2 Judgment rules

If there is an indicator in the inspection result that does not meet the requirements of this standard, it may carry out double sampling, from the same batch of products, for re-inspection.

7.1 Marking

Product's sales packaging and transportation packaging shall meet the requirements of GB/T 191.