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BB

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

BB/T 0018-2021

**Packaging container - Grape wine bottle
(English Translation)**

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Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Product Classification

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces BB/T 0018-2000 "Packaging Container Wine Bottle". Compared with BB/T 0018-2000, this standard the content of the surgery changes as follows.

- Added the color classification of wine bottles (3.1);
- Added the method of wine bottle classification according to the type of wine contained (3.2);
- Added a picture of typical wine bottle types and names of various parts (3.3);
- Modified the wine bottle specification size and thickness table, and changed it to the capacity and error table (see 4.1.1, 4.2.1.1 of the 2000 edition);
- Modified the full mouth capacity tolerance table (see 4.1.1, 4.2.2.4 of the 2000 edition);
- Modified the calculation formula of the outer diameter tolerance of the bottle body (see 4.1.3, 4.2.2.2 of the 2000 edition);
- Increase the requirements for the inner diameter of the bottle mouth and the inner diameter of the bottleneck (4.1.4);
- Modified the vertical axis deviation calculation formula (see 4.1.5, 4.2.2.3 of the 2000 edition);
- Increase the requirements of bottle convexity and bottle concavity (4.1.6);
- Increased the inclination requirement of the bottom of the bottle (4.1.8);
- Added the requirements for the thickness of the body and bottom of carbon dioxide-containing wine bottles (4.1.9.2);
- Modified the protruding amount of the seam line (see 4.1.10, 4.1.10 of the 2000 edition);
- Added the requirement for heavy metal migration (4.1.11);
- Modified the physical and chemical performance table, and increased the internal

pressure requirements of carbon dioxide-containing wine bottles (see 4.2, 4.1 in the 2000 edition);

---Added the wine bottle color wavelength range table (4.3);

---Added the classification of quality defects (4.4.1);

---Revised the appearance quality defect table (see 4.4.2, 4.3 of the 2000 edition);

---Modified the capacity test method (see 5.1.1, 5.2.1 of the 2000 edition);

---Added the method of measuring the height of the bottle body (5.1.2);

---Modified the bottle neck inner diameter and bottleneck measurement method (see 5.1.4, 5.1.4 of the 2000 edition);

---Added the measurement method of bottle convexity and bottle concavity (5.1.6);

---Added the method of measuring the inclination of the bottom of the bottle (5.1.8);

---Added the method of measuring the stitching of the bottle body (5.1.10);

---Added the measurement method of heavy metal migration (5.1.11);

---Increase the vertical load intensity detection method (5.2.1);

---Increase the internal pressure test method (5.2.5);

---Added the glass color wavelength measurement method (5.3);

---Modified the appearance quality (defect) detection method (see 5.4, 5.3 of the 2000 edition);

---Modified the inspection rule table, changed to accept the quality limit AQL and inspection level table (see 6.2, 2000 edition 6.2);

---Added the situation of type inspection (6.3.1);

---Added sampling method for type inspection (6.3.2);

---Modified the packaging requirements (see 7.1, 7.1 of the 2000 edition);

---Revised the labeling regulations (see 7.2, 7.2 of the 2000 edition);

---Modified the transportation requirements (see 7.3, 7.3 of the 2000 edition);

---Modified storage requirements (see 7.4, 7.4 in 2000 edition);

---Added Appendix A, CRITICAL code, Chinese and English names of flaws;

---Added Appendix B, MAJOR code, Chinese and English names of defects;

---Added Appendix C, Minor code, Chinese and English names of defects.

This standard was proposed by the China Packaging Federation.

This standard is under the jurisdiction of the National Packaging Standardization Technical Committee (SAC/TC49).

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1 Scope

This standard specifies the product classification, technical requirements, test methods, inspection rules and identification, packaging, transportation and storage of wine bottles.

This standard applies to glass bottles containing various types of wine.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version is applicable to this document. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 2828.1 Sampling inspection procedure by attributes Part 1: Batch inspection sampling plan retrieved by acceptance quality limit (AQL) GB/T 4545 Test method for internal stress of glass bottles and cans GB/T 4546 Test method for internal pressure resistance of glass containers GB/T 4547 Test method for thermal shock resistance and thermal shock durability of glass containers GB/T 4548.2 Determination and classification of the water erosion resistance of the inner surface of the glass container of glass products by flame spectroscopy GB 4806.5 Food Safety National Standard Glass Products GB/T 5433 Method for determination of light transmittance of daily glass GB/T 8452 Vertical axis deviation test method for glass bottles and cans GB/T 22934 Test method for vertical load resistance of glass containers GB 31604.24 National Food Safety Standard Determination of Cadmium Migration in Food Contact Materials and Products GB 31604.34 National Food Safety Standard Determination of Lead in Food Contact Materials and Products and Determination of Migration Amount

3 Product Classification

3.1

Wine bottles can be divided into antique green, champagne green, dark green, dead leaf yellow, French green, white light color, mint green, etc. according to the color.

Color wine bottles.

3.2

According to the type of wine, it can be divided into Bordeaux bottles, Burgundy bottles, Rhein bottles, champagne bottles, sparkling wine bottles, etc., or according to users the requirements are named.

3.3

The typical wine bottle type and name of each part are shown in Figure 1.