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

JY/T 0449-2011

**Glass filter suction bottle for teaching
(English Translation)**

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Foreword

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

Please note that some elements of this standard may involve patents. The issuer of this standard should not be held responsible for identifying these patents.

This standard was proposed by the National Technical Committee for Standardization of

Teaching Instruments (SAC/TC125).

This standard is under the jurisdiction of the National Technical Committee for Standardization of Teaching Instruments (SAC/TC125).

This standard was drafted. Sichuan Longchang Glass Instrument Factory, Zhejiang Educational Technology Center, Sichuan Ziyang Glass Instrument Factory, Sichuan Scientific industry teaching equipment limited liability company.

1 Scope

This standard specifies the classification and naming, technical requirements, test methods, inspection rules, packaging, transportation, and storage of suction filter bottles.

This standard applies to teaching filter bottles.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this document.

For undated references, the latest version (including all amendments) applies to this document.

GB 191-2008 packaging storage and transportation pictogram GB/T 2828.1-2003 Counting sampling inspection procedures. Part 1. Sampling plan for batch inspection according to acceptance quality limit (AQL) JY 0001-2003 General quality requirements for teaching instruments and equipment products JY 0002 Inspection rules for teaching instruments and equipment products JY 0026-1991 teaching instrument and teaching equipment product model naming method JY/T 0423-2011 General quality requirements and test methods of teaching glass instruments

3.1 Product Classification

It is divided into three specifications of 250mL, 500mL and 1000mL according to the capacity.

3.2 Model designation

The model name of the product is in accordance with JY 0026-1991.

The model name of the suction filter bottle is.

L - CLP - Z - 250

Product specifications, unit. mL Product feature code, cone, and other shapes?

Product name Pinyin prefix, suction filter bottle Product model classification code, glass

instrument Model example.

L-GLP-Z-250. Conical suction filter bottle with a capacity of 250mL.

4.1 Materials

It should be made of colorless borosilicate glass. The average linear thermal expansion coefficient is not more than $4.0 \times 10^{-6} \text{K}^{-1}$.

4.2 Specifications

The external dimensions and tolerances of various specifications of suction filter bottles shall conform to Table 1. The code of each part is shown in Figure 1. The mouth of the bottle is standard ground.

Table 1 Dimensions and tolerances in millimeters

Part name code

Specifications, sizes and tolerances 250mL 500mL 1000mL Bottle full height H 160 ± 8 200 ± 8 240 ± 8 Bottleneck height h 50 ± 3 60 ± 3 65 ± 3 Bottle bottom diameter D 90 ± 3 115 ± 3 140 ± 3 Standard grinding mouth 19/H, 24/H 19/H, 24/H 29/H Outer diameter of branch pipe d 10 ± 2 10 ± 2 10 ± 2 Branch pipe length 55 ± 15 55 ± 15 55 ± 15 Wall thickness S ≥ 2.5 ≥ 2.5 ≥ 2.5

Figure 1 Suction filter bottle

4.3 Appearance

4.3.1

The appearance defects allowed are shown in Table 2.

Table 2 Permitted appearance defects

defect

250mL 500mL 1000mL

Maximum diameter

Quantity

Maximum diameter

Quantity

Maximum diameter

Quantity

Bubbles ≤ 5 ≤ 3 ≤ 6 ≤ 3 ≤ 8 ≤ 3 Nodule ≤ 2 ≤ 3 ≤ 2 ≤ 3 ≤ 3 ≤ 3 Stone ≤ 1 1 ≤ 1

≤ 2 ≤ 1 ≤ 3 Watermark ≤ 5 ≤ 2 ≤ 5 ≤ 2 ≤ 8 ≤ 2 Allowable total number of bubbles, nodules, stones, and watermarks ≤ 6 Allowable total number of air bubbles, nodules, stones, and watermarks ≤ 6 Air bubbles, nodules, stones, and watermarks are allowed to total Number ≤ 8 Iron filings ≤ 1 ≤ 2 ≤ 1 ≤ 2 ≤ 1 ≤ 3 Single stripes ≤ 3 , should not be concentrated

4.3.2

The appearance defects that should not exist shall be in accordance with JY/T 0423-2011 Section 5.1.1.

4.3.3

The wall thickness and bottom thickness of the bottle shall be uniform without sudden changes, and the thickness-thickness ratio shall not be greater than 2. 1.

4.3.4

The branch pipe connection should be smooth and firm, and should not be skewed.

4.4 Pressure resistance

The bottle should be able to withstand a pressure difference of 0.2 MPa for 2 minutes without being damaged.

4.5 Chemical stability

It should meet the water resistance HGB level 1, acid resistance H1 level, and alkali resistance A2 level.

4.6 Internal stress

It should be no more than 180nm/cm.

4.7 Environmental test

The environmental test shall be in accordance with Chapter 8 of JY/T 0423-2011.

5 Test method

5.1

Dimensions are measured with a vernier caliper with a division value of 0.02mm and a steel ruler with a division value of 0.5mm, which shall meet the requirements of 4.2 of this standard.

begging. The length of the appearance defect shall be tested with a reading microscope and shall meet the corresponding requirements of this standard.