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

JY/T 0429-2011

**Glass Neck Safety Funnel 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 of long-neck safety funnels, technical requirements, test methods, inspection rules, packaging, transportation, and storage.

This standard applies to long-neck safety funnels.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article Pieces. 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 acceptance procedure Part 1. Sampling plan for batch inspection for retrieval by 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

According to the structure, it is divided into straight safety funnel, ring neck safety funnel, one-ball safety funnel and two-ball safety funnel, with a length of 300mm.

3.2 Model Nomenclature

The model name of the product is in accordance with the provisions of JY 0026-91.

The model of the safety funnel is named.

L - ALD - Z/H/IQ/IIQ - 300 Product specifications (length), unit. mm Product feature code, straight/ring/one ball/two balls Product name Pinyin prefix, safety funnel Product model classification code, glass instrument Model example.

L-ALD-IQ-300. a ball safety funnel with a length of 300mm.

4.1 Materials

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

4.2 Dimensions

The overall dimensions and tolerances of the long-neck safety funnel of various specifications shall conform to Figure 1, Figure 2, Figure 3, and Figure 4, and the unit is mm.

Figure 1 Straight safety funnel Figure 2 Ring-free safety funnel

Figure 3 Ring single ball safety funnel Figure 4 Ring double ball safety funnel

4.3 Appearance

4.3.1

Permitted appearance defects. air bubbles should be no more than 3mm, no more than 2; nodules. no more than 2mm, no more than 2 Stones. not more than 1mm, not more than 2; iron filings, not more than 0.5mm, not more than 2; the total number of defects allowed above There should be no more than four.

4.3.2

The funnel should have no obvious crooked neck, and the mouth should be smooth and smooth.

4.3.3

The single and double spheres shall be located in the middle of the ring pipe, and there shall be no obvious deflection.

4.3.4

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

4.4 Tube wall thickness uniformity

Should comply with JY/T 0423-2011 Section 4.1.1.2.

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

The internal stress should not be greater than 180nm/cm.

4.7 Environmental test

Environmental test items 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 comply with 4.2 of this standard. Observation of the length of the defect with a reading microscope test should meet the corresponding requirements of this standard.

5.2

Wall thickness and uniformity shall be tested in accordance with JY/T 0423-2011 Section 4.1.3, and shall meet the requirements of 4.2 and 4.4 of this standard.

5.3

Water resistance, acid resistance, and alkali resistance are tested in accordance with JY/T 0423-2011 Section 6.5.5, which shall meet the requirements of 4.5 of this standard.

5.4

The internal stress shall be in accordance with JY/T 0423-2011 Section 6.1.2 and shall comply with this standard 4.6.

5.5

The material test shall be in accordance with Article 7.2 of JY/T 0423-2011, shall comply with 4.1 of this standard, and shall not be colored.

5.6

The rest shall be subject to sensory inspection and shall comply with the corresponding requirements of this standard.

5.7

The environmental test method shall be in accordance with Chapter 8 of JY/T 0423-2011 and shall comply with 4.7 of this standard.

6.1 Inspection classification

The inspection of this product is divided into factory inspection, type inspection and quality supervision inspection.