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JY

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

JY/T 0439-2011

**Glass instruments for teaching should be taken over (tailed
over)**

(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

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1 Scope

This standard specifies the classification and naming, technical requirements, test methods, inspection rules, packaging, transportation, storage and other contents that should be taken over.

This standard applies to should take over.

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 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 different dimensions, it is divided into four specifications. phi15mm x 150mm, phi18mm x 150mm, phi25mm x 180mm, phi30mm x.200mm.

3.2 Model designation

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

The models to be taken over are named.

L - YJG - W - 15 x 150 Product specifications (), unit. mm Product feature code, curved Product name Pinyin prefix, should take over Product model classification code, glass instrument Model example.

L-YJG-W-15 x 150. The curved shape with dimensions of phi 15mm x 150mm should take over.

4.1 Materials

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

4.2 Dimensions

The dimensions and tolerances of various specifications to be taken over shall conform to Table 1 and Figure 1.

Table 1 The specifications should take over the specifications, dimensions and tolerance units in millimeters

Part name

Specifications, sizes and tolerances $\phi 15 \times 150$ $\phi 18 \times 150$ $\phi 25 \times 1800$ $\phi 30 \times 200$

1 Straight tube length L 175 ± 10 80 ± 10 100 ± 10 110 ± 10

2 Conical tube length L 275 ± 10 70 ± 10 80 ± 10 90 ± 10

3 Straight pipe diameter D 15 ± 2 18 ± 2 25 ± 2 30 ± 2

4 Conical nozzle diameter D 18 ± 2 9 ± 2 10 ± 2 15 ± 3

5 Wall thickness S 1.5 ± 0.5 1.5 ± 0.5 2 ± 0.5 2 ± 0.5

Figure 1 Bend should take over

4.3 Appearance

4.3.1 Permitted appearance defects. gas line width of 0.5mm, non-concentrated, length less than 1/2 of the length of branch pipe, no more than 5;

There should be no more than 2 lines; the maximum diameter of the nodules should be no more than 2mm and no more than 5; the maximum stone diameter should be less than 1.5mm and no more than 4 each. Permissible total number of appearance defects. no more than 6 air lines and single stripes, no more than 7 nodules and stones.

4.3.2 The appearance defects that should not exist shall be in accordance with 4.1.1.2 of JY/T 0423-2011.

4.3.3 Straight nozzles shall be smooth and smooth, tapered nozzles shall be smooth and there shall be no quick openings.

4.4 Internal stress

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

4.5 Chemical stability should meet water resistance HGB level 1, acid resistance H1 level,

alkali resistance A2 level.

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

5 Test method

5.1

The average linear thermal expansion coefficient shall be in accordance with JY/T 0423-2011 Section 6.4.2. The test shall meet the requirements of Article 4.1 of this standard.

5.2

Dimensions are measured with a vernier caliper with a division value of 0.02 mm and a steel ruler with a division value of 0.5 mm, 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.

5.3

Wall thickness shall be in accordance with JY/T 0423-2011 Section 4.1.2 and shall comply with 4.2 of this standard.

5.4

The internal stress shall be in accordance with Article 6.1.2 of JY/T 0423-2011 and shall comply with 4.4 of this standard.

5.5

Water resistance, acid resistance, and alkali resistance are tested according to JY/T 0423-2011 Section 6.5.2, which shall meet the requirements of 4.6 of this standard.

5.6

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.

5.7

The remaining sensory tests shall meet the corresponding requirements of this standard.

5.8

The environmental test shall be in accordance with Chapter 8 of JY/T 0423-2011 and shall comply with this standard 4.6.