

ICS 03.180
CCS Y51

JY

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

JY/T 0185-2011

Replacing JY 185-1985

**Metal mesh cover
(English Translation)**

Issued on: July 11, 2013

Implemented on: July 11, 2013

Issued by: Ministry of Education of the People's Republic of China

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Foreword

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

This standard replaces JY 185-1985. In addition to editorial changes, the main technical requirements of this standard have changed as follows.

-Added specific regulations on connecting rods, metal balls and metal chains;

-Increased the requirements for base insulation performance;

-Added environmental tests.

Please note that some content of this standard may involve patents, and the issuing authority of this standard is not 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).

1 Scope

This standard specifies the nomenclature, requirements, test methods, inspection rules, signs, instructions for use, packaging, transportation, and storage of metal mesh covers.

This standard applies to metal mesh covers for physics teaching in middle schools.

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.

JY 0001-2003 General quality requirements for teaching instruments and equipment products
JY 0002 Inspection rules for teaching instruments and equipment products
JY 0009-1990 Environmental requirements and test methods for electronic equipment for teaching
JY 0026-1991 teaching instrument and teaching equipment product model naming method

3.1 Model Nomenclature

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

3.2 Nomenclature

The metal mesh cover is named.

D - WZ - B - 220

Product main parameters, diameter, unit. mm Product feature code, weaving Product name
Pinyin prefix, mesh cover Product model classification code, special equipment for
electromagnetics Model example.

D-WZ-B-220 stands for metal net cover, made of braid, 220mm in diameter, special instrument for electromagnetics.

4.1 Working environmental conditions

4.1.1

Working temperature. -10 °C ~ 40 °C.

4.1.2

Relative humidity. not more than 80% RH (40 ° C).

4.2 Product structure and appearance

The metal mesh cover shall consist of four parts. the mesh cover, the connector, the connecting rod and the insulating base. Product structure and appearance quality requirements should meet JY Chapters 6 and 7 of 0001-2003.

4.3 Net cover

4.3.1

The net cover diameter shall not be less than 220mm, and the height shall not be less than 280mm.

4.3.2

The mesh cover shall be woven with wire not less than 0.6mm in diameter, and the mesh diameter shall not be greater than 5mm.

4.3.3

The surface of the net cover should be round, the tip of the metal wire should not be exposed, the skeleton should be straight, the support should be reliable, and the edge of the net mouth should be neat and smooth.

solid. The elbow should be clamped tightly and not loose. The end of the mesh should be retracted into the net and should not be exposed.

4.4 Connectors and connecting rods

The nut on the connector should be locked with the upper opening of the net cover, and it should be firm and reliable. The connector should have set screws to fix the connecting rod and connect There shall be a metal ball on the upper end of the rod, and the ball diameter shall not be less than $\phi 15\text{mm}$. There should be a metal chain at the lower end, and the metal chain should be adjustable to a distance from the base surface.

More than 100mm. The adjustment range of the connecting rod should not be less than 30mm.

4.5 Base

4.5.1

The paint on the surface of the iron base shall be uniform and smooth without scratches and peeling.

4.5.2

The base should be connected to the insulation rod, the upper end of the insulation rod should be connected to the metal disc, the insulation performance of the insulation rod should comply with 4.6, and the insulation rod should be it is made of materials with insulation performance not lower than plexiglass. The connection between the rod and the base and the disc should be firm and free of looseness.

4.5.3

The diameter of the metal disc should not be less than 240mm, and the surface of the metal material should be electroplated without scratches.

4.5.4

The height of the base should not be less than 120mm.

4.6 Base Insulation Performance

A gold foil electroscope should be used as a test tool at a relative humidity of 75% to 80%.

Place the gold foil electroscope on the base, make the gold foil electroscope charged, and the opening angle is greater than 30 °. The opening angle of the foil in 20s should not be visible Variety.

4.7 Environmental test

Should be able to withstand the humidity storage test and transport test items according to JY 0009-1990.

5.1 Visual and structural inspection

Visual inspection and sensory inspection of appearance and structure shall comply with 4.3.3, 4.4, 4.5.1, 4.5.2, 4.5.3.

5.2 Dimensions

Product related dimensions require a micrometer with a division value of 0.01mm, a vernier caliper with a division value of 0.02mm or a steel straight with a division value of 1mm.

Ruler measurement should meet the requirements of 4.3, 4.4, and 4.5.