

Translated English of Chinese Standard: YB/T5240-2005

www.ChineseStandard.net → Buy True-PDF → Auto-delivery.

Sales@ChineseStandard.net

YB

FERROUS METALLURGY INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 77.140.99

H 58

YB/T 5231-2005

YB/T 5233-2005

YB/T 5235 ~ 5241-2005

Replacing YB/T 5231 ~ 5241-1993

Alloy with expansion

膨胀合金

Issued on: July 26, 2005

Implemented on: December 01, 2005

Issued by: National Development and Reform Commission of PRC

Table of Contents

Foreword	3
1 Scope	4
2 Normative references	4
3 Order contents	4
4 Classification and code	5
5 Sizes, shapes, tolerances	5
6 Technical requirements	5
7 Test method	7
8 Inspection rules	7
9 Packaging, marking, quality certificate	7
Appendix A (Informative) Typical expansion coefficient of alloy	8

The glass sealed iron-chromium alloy 4J28

1 Scope

This standard specifies the size, shape, technical requirements, test methods, inspection rules, packaging, marks, quality certificates of glass sealed iron-chromium alloy 4J28.

This standard applies to iron-chromium alloys that are matched and sealed by soft glass on electrical components.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard; however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 14985 General rules of dimensions shape surface quality testing method and inspection for expansion alloys

3 Order contents

The contract or order according to this standard shall include the following contents:

- a) Standard number;
- b) Product name;
- c) Trademark or unified digital code;
- d) Weight (or quantity) of the delivery;
- e) Size and shape;
- f) Processing method;
- g) Delivery status and performance;
- h) Special requirements.

6.3.3 Flat products are delivered in hot-rolled state.

6.3.4 Strips, wires, pipes are delivered in either soft state (S) or hard state (H).

6.4 Hardness

Soft strip hardness HV shall not exceed 170. For the strips with a thickness less than 0.2 mm, they are exempted from hardness inspection.

6.5 Physical properties

The average linear expansion coefficient of the alloy shall meet the requirements in Table 2.

6.6 Phase change

After the alloy is treated by the heat treatment system specified in Table 2, martensite shall not appear, but austenite is allowed.

6.7 Grain size

The grain size of the soft strip shall not be less than grade 6; the grain size smaller than grade 6 shall not exceed 10% of the area.

For strips with a thickness less than 0.13 mm, when estimating the average grain size, the number of grains along the thickness direction of the strip shall not be less than 6.

6.8 Airtightness

When the rods, which have diameter or side length not less than 15 mm, are tested for air tightness, there shall be no air leakage.

6.9 Process performance

After proper heat treatment, the deep-drawn or hard-state strip shall have good deep-drawing properties; lugs are not allowed to appear during deep-drawing.

6.10 Surface quality

The surface quality of alloy materials shall comply with the relevant provisions of GB/T 14985.

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----