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FERROUS METALLURGY INDUSTRY STANDARD
OF THE PEOPLE'S REPUBLIC OF CHINA

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YB/T 5235-2005

Replacing YB/T 5235-1993

**Sealed Iron-Nickel-Chromium, Iron-Nickel Alloy with
Permanent Expansion**

定膨胀封接铁镍铬、铁镍合金

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Sealed Iron-Nickel-Chromium, Iron-Nickel Alloy with Permanent Expansion

1 Scope

This Standard specifies the size, shape, technical requirements, test methods, inspection rules, packaging, marking, and quality certificates, etc. of iron-nickel-chromium 4J6, 4J47, 4J49 alloy and iron-nickel 4J42, 4J45, 4J50 alloy

This Standard is applicable to sealed iron-nickel-chromium and iron-nickel alloy with permanent expansion matched sealed on electrical components with soft glass or ceramic.

2 Normative References

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) 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 placed according to this Standard shall include the following:

- a) Standard number;
- b) Product name;
- c) Designation or unified digital code;
- d) The weight (or quantity) of the delivery;
- e) Size and shape;

- f) Processing method;
- g) Delivery status and performance;
- h) Special requirements.

4 Classification and Code

According to the delivery status, the alloy may be divided into:

- Soft state (S);
- Hard state (H);
- Deep drawing state (DQ);
- Cold drawing and polishing (WCDG);
- Hot rolling (forging) (WH).

5 Size and Shape

The size, shape and allowable deviation of the alloy materials shall conform to the relevant provisions of GB/T 14985.

6 Technical Requirements

6.1 Smelting method

Unless specified in the contract, the smelting method is at the discretion of the manufacturer.

6.2 Designation and chemical composition

6.3 The designation and chemical composition (melting composition) of the alloy shall meet the requirements of Table 1. When the average linear expansion coefficient meets the requirements of this Standard, the content of nickel and chromium is allowed to deviate from range specified in the standard.

6.4 Delivery status

6.4.1 The delivery status of alloy materials shall be indicated in the contract.

6.4.2 Bars are delivered in cold drawing, cold drawing and polishing (WCDG) and hot

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