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GB/T 33816-2017

Copper Strips for Circuit Breakers

断路器用铜带

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Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard was proposed by China Nonferrous Metals Industry Association.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Nonferrous Metals (SAC/TC 243).

Drafting organizations of this Standard: Shaoxing Libo Electric Co., Ltd., Anhui Xinke New Materials Stock Co., Ltd., Shaoxing Quality and Technical Supervision and Inspection Institute, Shandong Tianyuan Copper Industry Co., Ltd., KMD Precise Copper Strip (Henan) Co., Ltd., and General Research Institute for Nonferrous Metals.

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Copper Strips for Circuit Breakers

1 Scope

This Standard specifies the requirements, test methods, inspection rules, marking, package, transportation, storage, quality certificate and order sheet (contract) content of copper strips for circuit breakers

This Standard is applicable to the copper strips for circuit breakers.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 228.1-2010 Metallic Materials – Tensile Testing – Part 1: Method of Test at Room Temperature

GB/T 351 Metallic Materials – Resistivity Measurement Method

GB/T 4340.1 Metallic Materials – Vickers Hardness Test – Part 1: Test Method

GB/T 5121 (all parts) Methods for Chemical Analysis of Copper and Copper Alloys

GB/T 5231 Designation and Chemical Composition of Wrought Copper and Copper Alloys

GB/T 8888 Wrought Heavy Non-Ferrous Metal Products – Packing, Marking, Transporting and Storing

GB/T 26303.3 Measuring Methods for Dimensions and Shapes of Wrought Copper and Copper Alloys – Part 3: Sheets and Strips

YS/T 478 Method for Electrical Conductivity Measurement of Copper and Copper Alloys by Use of Eddy Current

YS/T 482 Method for Analysis of Copper and Copper Alloys – The Atomic Emission Spectrometry

YS/T 668 Sampling Method of Physical and Chemical Testing for Copper and

4 Test Methods

4.1 Chemical compositions

The inspection of strip chemical compositions shall be performed as per the provisions of GB/T 5121 (all parts) or YS/T 482; the arbitration analysis method shall be performed as per the provisions of GB/T 5121 (all parts).

4.2 Shape size and permissible deviation

The inspection of strip shape size and permissible deviation shall be performed as per the provisions of GB/T 2630.3.

4.3 Mechanical property

4.3.1 The tensile test of strip shall be performed as per the provisions of GB/T 228.1-2010; its shape size and specimen number shall conform to the provisions of P04 or P08 in Table D.2.

4.3.2 The Vickers hardness test of strip shall be performed as per the provisions of GB/T 4340.1.

4.4 Electrical property

The electrical property test of strip shall be performed as per the provisions of GB/T 351 or YS/T 478. When arbitrating, it shall be performed as per the provisions of GB/T 351.

4.5 Surface quality

The surface quality of strip shall be examined visually.

5 Inspection Rules

5.1 Inspection and acceptance

5.1.1 The strip shall be inspected by the quality supervision department of the supplier; ensure that the product quality conforms to the provisions of this Standard and order sheet (or contract); and fill in the product quality certificate.

5.1.2 The purchaser shall be re-inspected the product received according to the provisions of this Standard and order sheet (or contract); if the re-inspection results are inconsistent with the provisions of this Standard and order sheet (or contract), it shall be submitted to the supplier within 3 months in written form, then shall be solved through negotiation between the supplier and purchaser. The problems that belong to

5.5.2 When the shape size, permissible deviation and surface quality of strip are disqualified, then such batch of strip is disqualified.

5.5.3 When there is disqualified specimen in mechanical property and electrical property test results, take double quantity of specimens from such batch of strips (including the originally disqualified roll of strip in the test) to re-test; if the re-test results are qualified totally, then the whole batch of products are qualified. If there is still disqualified product in the re-test results, then such batch (or such roll) of strip is disqualified; then the supplier is allowed to check roll by roll, only the qualified roll can be delivered.

6 Marking, Package, Transportation, Storage, Quality Certificate

The marking, package, transportation, storage and quality certificate of strip shall conform to the provisions of GB/T 8888.

7 Order Sheet (or Contract) Contents

The order sheet (or contract) ordering the materials listed in this Standard shall include the following contents:

- a) Product name;
- b) Grade;
- c) Supply state;
- d) Size specification;
- e) Hardness (if required);
- f) Weight;
- g) This Standard number;
- h) Others.

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