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

GB/T 17951.2-2014

Replacing GB/T 17951.2-2002

**Cold-rolled non-oriented electrical steel strip delivered in the
semi-processed state**

半工艺冷轧无取向电工钢带

(English Translation)

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Foreword

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

This standard replaces GB/T 17951.2-2002 "half process cold rolled non-oriented electrical steel (sheet)." this standard compared with GB/T 17951.2-2002 The main changes are as follows.

--- Modify the scope of application;

--- Remove the nominal thickness of 0.50mm

50WB500,50WB530,50WB600,50WB700,50WB800 grades;

--- Modify the reference heat treatment conditions in the dew point temperature by 35 °C adjusted to 20 °C ± 2 °C;

--- Increasing the requirements and test methods for the specific average surface roughness;

--- Increased testing methods tensile strength and elongation;

--- Increasing the insulation coating resistance test method;

--- Increasing the numerical rounding rules.

This standard uses redrafted law revision adopted IEC 60404-8-3:2005 "half cold rolling process the alloy, non-alloy electrical steel sheet (strip) technology condition".

Taking into account China's national conditions, the use of this standard in IEC 60404-8-3:2005 When the following changes.

--- About the technical differences have been incorporated into the body and they are involved in terms of the margin of a single vertical line identification. In the data A list of those technical differences and the reasons given in Annex C for reference;

--- Grades according to the provisions of GB/T 221 preparation, lists of the Standard Grade with IEC Standard Grade in information in Appendix A of According to the table;

- Lists the provisions of this standard and the control list IEC standard clauses in informative Appendix B;
- Remove the IEC standard foreword;
- Chapter 3. The IEC standard "definition" to "Terms and Definitions";
- Increase the numerical rounding rules.

The standard proposed by China Iron and Steel Association.

This standard by the National Steel Standardization Technical Committee (SAC/TC183) centralized.

This standard drafting of the main unit. Wuhan Iron and Steel (Group) Corporation, Anshan Iron and Steel Group, Shougang Corporation, Metallurgical Industry Information Standards Institute Study hospital.

1 Scope

This standard specifies the terms and definitions and a half process of cold-rolled non-oriented electrical steel, classification, designation, general requirements, technical requirements, test side Law, packaging, marking and quality certificate.

This standard applies to magnetic structure for use in coating or not coating, heat treatment after punching required nominal thickness of 0.50mm, 0.65mm semi-process cold rolled non-oriented electrical steel.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 228.1 tensile testing of metallic materials - Part 1. room temperature test methods (GB/T 228.1-2010, ISO 6892-1.

2009, MOD)

General provisions GB/T 247 steel sheet and strip packaging, marking and quality certificate GB/T 2521 cold rolled grain oriented and non-oriented electrical steel (sheet) (GB/T 2521-2008, IEC 60404-8-7:1998, IEC 60404-8-4:1998, MOD) GB/T 2522 electrical steel sheet (strip) surface insulation resistance, coating adhesion test method (GB/T 2522-2007, IEC 60404-11:1999, MOD) GB/T 2523 cold-rolled sheet metal (with) the surface roughness and the peak number of measurement methods (GB/T 2523-2008, SAEJ911-1998, NEQ) GB/T 3655 with Epstein measuring magnetic properties of electrical steel sheet method (band) (GB/T 3655-2008, IEC 60404-2.

1996, IDT)

GB/T 17505 Steel and steel products General technical delivery requirements (GB/T 17505-1998, ISO 404:1992, EQV) GB/T 18253 Steel and steel products inspection document type (GB/T 18253-2000, ISO 10474:1991, EQV) GB/T 19289 electrical steel sheet (strip) density, resistivity and stacking factor of the measurement method (GB/T 19289-2003, IEC 404-13:1995, MOD) Determining rounding and detection values
YB/T 081 standard metallurgical technical value

3 Terms and Definitions

GB/T 17505 and defined the following terms apply to this document.

Semi craft semi-processed Production plants are not final annealing by the user must complete annealing process status.

The average surface roughness roughnessaverage Arithmetical mean deviation of the roughness profile, that is the arithmetic mean of the roughness profile within sampling length offset absolute units Micron (μm).