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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3514-2013

Identification method of texture analysis for grain oriented and non-oriented electrical steels. X-ray diffraction(XRD)

电工钢晶粒取向与无取向鉴定方法 X射线衍射测定织构法

(English Translation)

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Foreword

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

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Guangdong CIQ.

1 Scope

This standard specifies the X-ray diffraction texture and grain-oriented electrical steel identified non-oriented approach.

This standard applies to the grain-oriented and non-oriented electrical steel Identification of.

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.

JB/T 9400 X-ray diffractometer technical conditions

3 Terms and Definitions

The following terms and definitions apply to this document.

Grain-oriented grainorientation Grain to produce electrical steel by deformation and recrystallization annealing and a series of preferential orientation.

Texture

Polycrystalline grain oriented phenomenon concentrated in the vicinity of one or some of the orientation of said preferred orientation, polycrystalline said preferred orientation

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Texture.

GOSS texture GOSStexture Cold rolled and annealed sheet metal, sometimes such a texture that coincides with (110) crystal plane of each grain in the rolling plane, [001] crystal direction parallel to the rolling direction, usually written as (100) [001] texture, also known as the "cubic texture." 3.4 ODF orientationdistributionfunction (referred ODF) Spatial orientation g (phi1, phi, phi2) of the density distribution f (g) may be the expression of polycrystals oriented distribution of the entire space, which are called null Room orientation distribution function (ODF).

{Hkl} pole figures {hkl} polefigure Pole figure shows a selected test material in various grain {hkl} crystal face orientation distribution pattern.

4 Principle of the method

Measured by X-ray diffraction intensity of electrical steel texture, and calculated GOSS texture content, determination according to GOSS texture Given grain-oriented electrical steel.

Note: A common orientation and non-oriented silicon steel pole figure and ODF diagram in Appendix A, Appendix B, Appendix C, Appendix D.

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