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

GB/T 46476-2025

**Methods of determination of the geometrical characteristics of
electrical steel strip and sheet**

电工钢带和钢片几何特性的测量方法

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

This document adopts IEC 60404-9:2018 "Magnetic materials - Part 9: Methods of measurement of geometric properties of electrical steel strips and sheets".

The following minimal editorial changes have been made to this document.

---To align with existing standards, the standard name has been changed to "Methods for measuring the geometric properties of electrical steel strips and sheets".

1 Scope

This document describes the edge waviness (wavelength), residual curvature, camber, and shear edge deviation caused by internal stress in electrical steel strips and sheets. Methods for measuring and testing burr height.

This document applies to electrical steel strips (sheets) and low-carbon mild steel that conform to categories B2, C21, C22 and C23 of IEC 60404-1 and constitute magnetic circuits. Measurement of the geometric properties of flat materials, etc.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document. (IEV)-Part 121: Electromagnetism)

Note: GB/T 2900.60-2002 Electrical Engineering Terminology. Electromagnetism (eqv IEC 60050-121:1998)

Note: GB/T 9637-2001 Electrical Engineering Terminology. Magnetic Materials and Components (eqv IEC 60050-221:1990)

IEC 60404-1 Magnetic materials - Part 1: Classification

Note: GB/T 21219-2023 Classification of Magnetic Materials (IEC 60404-1:2016, MOD)

3 Terms and Definitions

The terms and definitions defined in IEC 60050-121 and IEC 60050-221, as well as the following terms and definitions, apply to this document.

The addresses of the terminology databases maintained by ISO and IEC for standardization are as follows.

3.1 Edge wave

Waveform A steel strip or sheet of a certain length has a wavy, flatness variation at its sheared edge.

3.2 Residual curvature

The change in flatness of a steel strip or sheet of a certain length exhibiting permanent bending along the rolling direction.

3.3 Edgecamber

The maximum distance between the longitudinal edge of a steel strip or sheet of a certain length and the line connecting the two ends of the measuring section.