

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Magnetic materials –**

**Part 8-4: Specifications for individual materials – Cold-rolled non-oriented electrical steel strip and sheet delivered in the fully-processed state**

**Matériaux magnétiques –**

**Partie 8-4: Spécifications pour matériaux particuliers – Bandes et tôles magnétiques en acier à grains non orientés, laminées à froid et livrées à l'état fini**





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**MAGNETIC MATERIALS –****Part 8-4: Specifications for individual materials –  
Cold-rolled non-oriented electrical steel strip and sheet  
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IEC 60404-8-4 has been prepared by IEC technical committee 68: Magnetic alloys and steels. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2013. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) modification of terms and technical requirements concerning geometrical characteristics to be consistent with IEC 60404-9:2018;
- b) insertion of Table 3 – Tolerances on nominal thickness;
- c) change of the length of test specimen for determination of geometrical characteristics from 2 m to 1 m.

The text of this International Standard is based on the following documents:

Draft	Report on voting
68/700/CDV	68/713/RVC

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

A list of all parts in the IEC 60404 series, published under the general title *Magnetic materials*, can be found on the IEC website.

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- reconfirmed,
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- amended.

## INTRODUCTION

This revision of International Standard IEC 60404-8-4 has been prepared by the experts of the Working Group 1 of the IEC Technical Committee 68: Magnetic alloys and steels.

The third edition of IEC 60404-8-4 was issued in 2013. After that, other IEC 60404 standards were revised and IEC TC 68 decided in 2019 at their meeting in Düsseldorf to revise this document to maintain consistency for user's convenience. The revision is made mainly on technical amendments regarding testing and definitions of geometrical characteristics in accordance with IEC 60404-9. The length of test specimen for determination of geometrical characteristics is changed from 2 m to 1 m. The term of “flatness” is divided into “edge wave (wave factor)” and “residual curvature” and the horizontal method is introduced for verification of residual curvature. This revision also includes corrections in order to improve consistency with other standards of the IEC 60404-8 series.