

# INTERNATIONAL STANDARD

**Magnetic materials –**

**Part 8-5: Specifications for individual materials – Electrical steel strip and sheet  
with specified mechanical properties and magnetic polarization**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## MAGNETIC MATERIALS –

**Part 8-5: Specifications for individual materials –  
Electrical steel strip and sheet with specified mechanical  
properties and magnetic polarization**

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International Standard IEC 60404-8-5 has been prepared by IEC technical committee 68: Magnetic alloys and steels.

This second edition cancels and replaces the first edition published in 1989. This edition constitutes a technical revision.

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

- a) extension of the range of products to include the improved grades;
- b) division of "flatness" into "edge wave (wave factor)" and "residual curvature" in consistent with IEC 60404-9;
- c) change length of test specimen for determinations of geometrical characters from 2 m to 1 m.

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

CDV	Report on voting
68/648/CDV	68/662/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

## INTRODUCTION

The first edition of IEC 60404-8-5, "*Magnetic materials – Part 8: Specifications for individual materials – Section Five – Specification for steel sheet and strip with specified mechanical properties and magnetic permeability*", was published in April 1989 and has not been revised for more than 30 years. Since then, new grades of cold-rolled material of minimum proof strength  $R_{p0,2}$  greater than 400 MPa were developed and widely used. Thus, IEC TC 68 decided in 2017 at their meeting in Paris to revise this document. This revision also includes corrections to the first edition in order to improve consistency with the other parts of the IEC 60404-8 subseries.