

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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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms and definitions	8
4 Classification.....	8
5 Designation	8
6 General requirements	9
6.1 Production process	9
6.2 Form of supply.....	9
6.3 Delivery condition	9
6.4 Surface condition.....	10
6.5 Suitability for cutting	10
6.6 Suitability for welding.....	10
7 Technical requirements	10
7.1 Mechanical properties.....	10
7.2 Magnetic polarization.....	10
7.3 Geometrical characteristics and tolerances	12
7.3.1 Thickness	12
7.3.2 Width.....	14
7.3.3 Length	14
7.3.4 Edge wave (wave factor)	15
7.3.5 Residual curvature.....	15
7.3.6 Edge camber	16
7.4 Technological characteristics	16
7.4.1 Density	16
8 Inspection and testing.....	16
8.1 General.....	16
8.2 Selection of test samples	17
8.3 Preparation of test specimens.....	17
8.3.1 Mechanical properties.....	17
8.3.2 Magnetic polarization.....	17
8.3.3 Geometrical characteristics and tolerances.....	18
8.4 Test methods	18
8.4.1 General	18
8.4.2 Mechanical properties.....	18
8.4.3 Magnetic polarization.....	18
8.4.4 Geometrical characteristics and tolerances.....	18
8.5 Retests	19
9 Marking, labelling and packaging.....	19
10 Complaints	19
11 Information to be supplied by the purchaser	19
Table 1 – Mechanical and magnetic characteristics for hot-rolled grades	11
Table 2 – Mechanical and magnetic characteristics for cold-rolled grades.....	12

Table 3 – Tolerance on nominal thickness for hot-rolled grades	13
Table 4 – Tolerance on nominal thickness for cold-rolled grades	13
Table 5 – Maximum difference in thickness in a direction perpendicular to the direction of rolling for hot-rolled grades	13
Table 6 – Maximum difference in thickness in a direction perpendicular to the direction of rolling for cold-rolled grades	14
Table 7 – Tolerance on nominal width of products supplied with trimmed edges	14
Table 8 – Tolerance on nominal length of sheets	15
Table 9 – Maximum distance between the lower face of a test specimen and the flat surface table for hot-rolled grades	15
Table 10 – Maximum distance between the lower face of a test specimen and the flat surface table for cold-rolled grades	16
Table 11 – Minimum number of Epstein test strips	17

INTERNATIONAL ELECTROTECHNICAL COMMISSION

MAGNETIC MATERIALS –

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

FOREWORD

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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.