

Cold rolled non-oriented electrical steel strip and sheet
delivered in the fully processed state

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 10106:2015 sisaldab Euroopa standardi EN 10106:2015 ingliskeelset teksti.	This Estonian standard EVS-EN 10106:2015 consists of the English text of the European standard EN 10106:2015.
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English Version

Cold rolled non-oriented electrical steel strip and sheet delivered in the fully processed state

Bandes et tôles en acier électrique à grains non
orientés laminées à froid et livrées à l'état fini

Kaltgewalztes nicht kornorientiertes Elektroband und -
blech im schlussgeglühten Zustand

This European Standard was approved by CEN on 29 August 2015.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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Contents

Page

European foreword.....	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions.....	5
4 Classification and designation.....	6
4.1 Classification.....	6
4.2 Designation.....	6
5 Information supplied by the purchaser.....	6
5.1 Mandatory information.....	6
5.2 Options.....	7
5.3 Example of an order.....	7
6 General requirements.....	7
6.1 Production process.....	7
6.2 Form of supply.....	7
6.3 Delivery condition.....	8
6.4 Surface condition.....	8
6.5 Suitability for cutting.....	8
7 Technical requirements.....	8
7.1 Magnetic properties.....	8
7.1.1 General.....	8
7.1.2 Magnetic polarization.....	8
7.1.3 Specific total loss.....	9
7.1.4 Anisotropy of loss.....	9
7.2 Geometric characteristics and tolerances.....	10
7.2.1 Thickness.....	10
7.2.2 Width.....	11
7.2.3 Length.....	12
7.2.4 Edge camber.....	12
7.2.5 Flatness (wave factor).....	12
7.2.6 Residual curvature.....	12
7.3 Technological characteristics.....	12
7.3.1 Density.....	12
7.3.2 Stacking factor.....	12
7.3.3 Number of bends.....	12
7.3.4 Internal stresses.....	12
8 Inspection and testing.....	13
8.1 General.....	13
8.2 Selection of samples.....	13
8.3 Preparation of test specimens.....	13
8.3.1 Magnetic properties.....	13
8.3.2 Geometrical characteristics and tolerances.....	14
8.3.3 Technological characteristics.....	14
8.4 Test methods.....	14

8.4.1	General	14
8.4.2	Magnetic properties.....	14
8.4.3	Geometrical characteristics and tolerances	15
8.4.4	Technological characteristics	15
8.5	Retests	16
9	Marking, labelling and packaging.....	16
10	Complaints	16
Annex A	(normative) Options.....	17
Annex B	(informative) Non-specified magnetic properties	18
Annex C	(informative) Density determination.....	19
Annex D	(informative) Minimum stacking factor for coated products	20
Annex E	(informative) Changes to the previous version EN 10106:2007	21
Bibliography		22

European foreword

This document (EN 10106:2015) has been prepared by Technical Committee ECISS/TC 108 “Steel sheet and strip for electrical applications”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2016, and conflicting national standards shall be withdrawn at the latest by April 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 10106:2007.

Regarding the changes that were made in this new edition of EN 10106, see Annex E.

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1 Scope

This European Standard specifies cold-rolled non-oriented electrical steel strip and sheet in nominal thicknesses of 0,35 mm, 0,50 mm, 0,65 mm and 1,00 mm. In particular, it specifies general requirements, the magnetic properties, geometric characteristics and tolerances, technological characteristics as well as the inspection procedure.

This European Standard applies to materials supplied in the fully annealed condition intended for the construction of magnetic circuits. It does not apply to semi-processed material.

These magnetic materials correspond to IEC 60404-1:2000, C.2.3.2.1.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 10021, *General technical delivery conditions for steel products*

EN 10027-1, *Designation systems for steels — Part 1: Steel names*

EN 10027-2, *Designation systems for steels — Part 2: Numerical system*

EN 10204, *Metallic products — Types of inspection documents*

EN 10251, *Magnetic materials — Methods of determination of the geometrical characteristics of electrical steel sheet and strip*

EN 10280, *Magnetic materials — Methods of measurement of the magnetic properties of electrical sheet and strip by means of a single sheet tester*

EN 10342, *Magnetic materials — Classification of surface insulations of electrical steel sheet, strip and laminations*

EN 60404-2, *Magnetic materials — Part 2: Methods of measurement of the magnetic properties of electrical steel strip and sheet by means of an Epstein frame (IEC 60404-2)*

EN 60404-13, *Magnetic materials — Part 13: Methods of measurement of density, resistivity and stacking factor of electrical steel sheet and strip (IEC 60404-13)*

EN ISO 7799, *Metallic materials — Sheet and strip 3 mm thick or less — Reverse bend test (ISO 7799)*

IEC 60050-121, *International Electrotechnical Vocabulary — Chapter 121: Electromagnetism*

IEC 60050-221, *International Electrotechnical Vocabulary — Chapter 221: Magnetic materials and components*

3 Terms and definitions

For the purposes of this document, the terms and definitions of the principal terms relative to magnetic properties given in IEC 60050-121 and IEC 60050-221 and the following apply.