SLOVENSKI STANDARD
SIST EN 60404-8-1:2015

01-september-2015

Magnetni materiali - 8-1. del: Specifikacije za posamezne materiale - Trdomagnetni materiali

Magnetic materials - Part 8-1: Specifications for individual materials - Magnetically hard materials

Magnetische Werkstoffe - Teil 8-1: Anforderungen an einzelne Werkstoffe - Hartmagnetische Werkstoffe (Dauermagnete)

Matériaux magnétiques - Partie 8-1: Spécifications pour matériaux particuliers - Matériaux magnétiquement durs

Ta slovenski standard je istoveten z: **EN 60404-8-1:2015**

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29.030	Magnetni materiali	Magnetic materials

SIST EN 60404-8-1:2015 **en**

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EUROPEAN STANDARD

NORME EUROPÉENNE

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EN 60404-8-1

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English Version

Magnetic materials - Part 8-1: Specifications for individual materials - Magnetically hard materials (IEC 60404-8-1:2015)

Matériaux magnétiques - Partie 8-1: Spécifications pour matériaux particuliers - Matériaux magnétiquement durs (IEC 60404-8-1:2015)

Magnetische Werkstoffe - Teil 8-1: Anforderungen an einzelne Werkstoffe - Hartmagnetische Werkstoffe (Dauermagnete) (IEC 60404-8-1:2015)

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European Committee for Electrotechnical Standardization
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Ref. No. EN 60404-8-1:2015 E

Foreword

The text of document 68/495/FDIS, future edition 3 of IEC 60404-8-1, prepared by IEC/TC 68 "Magnetic alloys and steels" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60404-8-1:2015.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2016-02-01
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-05-01

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60050	series	International electrotechnical vocabulary	-	-
IEC 60404-5	-	Magnetic materials - Part 5: Permanent magnet (magnetically hard) materials - Methods of measurement of magnetic properties	-	-

IEC 60404-8-1

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Magnetic materials –
Part 8-1: Specifications for individual materials – Magnetically hard materials

Matériaux magnétiques –
Partie 8-1: Spécifications pour matériaux particuliers – Matériaux magnétiquement durs

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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MAGNETIC MATERIALS –

Part 8-1: Specifications for individual materials – Magnetically hard materials

FOREWORD

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International Standard IEC 60404-8-1 has been prepared by IEC technical committee 68: Magnetic alloys and steels.

This third edition cancels and replaces the second edition published in 2001 and Amendment 1:2004. This edition constitutes a technical revision.

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

a) recently developed anisotropic Sm-Fe-N bonded magnets are included;

b) high energy ferrites with La and Co as substituents are included.

The text of this standard is based on the following documents:

FDIS	Report on voting
68/495/FDIS	68/503/RVD

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

This publication 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 publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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

INTRODUCTION

This third edition of IEC 60404-8-1 includes the recently developed anisotropic Sm-Fe-N bonded magnets and high energy ferrites with La and Co as substituents which have become established in permanent magnet applications. It also includes corrections to the second edition in order to improve consistency with IEC 60404-5. The squareness of the demagnetization curve is introduced through the quantity H_{D} .