IEC 60404-8-1

Edition 3.0 2015-03

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

IEC 60404-8-1:2015-03(en-fr)

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 17.220.20; 29.030

ISBN 978-2-8322-2429-8

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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- withdrawn,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 .