



SLOVENSKI STANDARD

SIST EN 60424-3:2016

01-april-2016

Nadomešča:
SIST EN 60424-3:2002

**Feritna jedra - Smernica o mejnih vrednostih površinskih nepravilnosti - 3. del:
ETD-jedra, EER-jedra, EC-jedra in E-jedra**

Ferrite cores - Guideline on the limits of surface irregularities - Part 3: ETD-cores, EER-cores, EC-cores and E-cores

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Noyaux ferrites - Lignes directrices relatives aux limites des irrégularités de surface -
Partie 3: Noyaux ETD, EER, EC et E [SIST EN 60424-3:2016](#)

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Ta slovenski standard je istoveten z: EN 60424-3:2016

ICS:

29.100.10 Magnetne komponente Magnetic components

SIST EN 60424-3:2016 **en**

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EUROPEAN STANDARD

EN 60424-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2016

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Supersedes EN 60424-3:1999

English Version

Ferrite cores - Guidelines on the limits of surface irregularities - Part 3: ETD-cores, EER-cores, EC-cores and E-cores (IEC 60424-3:2015)

Noyaux ferrites - Lignes directrices relatives aux limites des irrégularités de surface - Partie 3: Noyaux ETD, EER, EC et E
(IEC 60424-3:2015)

Ferritkerne - Leitfaden für Grenzwerte von sichtbaren Beschädigungen der Kernoberfläche - Teil 3: ETD-Kerne, EER-Kerne, EC-Kerne und E-Kerne
(IEC 60424-3:2015)

This European Standard was approved by CENELEC on 2015-11-26. CENELEC 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.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

[SIST EN 60424-3:2016](#)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 60424-3:2016**European foreword**

The text of document 51/1099/FDIS, future edition 2 of IEC 60424-3, prepared by IEC/TC 51 "Magnetic components and ferrite materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60424-3:2016.

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) 2016-08-26
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-11-26

This document supersedes EN 60424-3:1999.

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The text of the International Standard IEC 60424-3:2015 was approved by CENELEC as a European Standard without any modification.

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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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60424-1	2015	Ferrite cores - Guidelines on the limits of surface irregularities - Part 1: General Specification	EN 60424-1 ¹⁾	-
IEC 60647	-	Dimensions for magnetic oxide cores intended for use in power supplies (EC-cores)	-	-
IEC 61185	-	Ferrite cores (ETD-cores) intended for use in power supply applications - Dimensions	EN 61185	-
IEC 62317-7	-	Ferrite cores - Dimensions - Part 7: EER-cores	EN 62317-7	-
IEC 62317-8	-	Ferrite cores - Dimensions - Part 8: E-cores	EN 62317-8	-

¹⁾ To be published.

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IEC 60424-3

Edition 2.0 2015-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Ferrite cores – Guidelines on the limits of surface irregularities –
Part 3: ETD-cores, EER-cores, EC-cores and E-cores**

**Noyaux ferrites – Lignes directrices relatives aux limites des irrégularités de
surface –**
Partie 3: Noyaux ETD, EER, EC et E

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FERRITE CORES – GUIDELINES ON
THE LIMITS OF SURFACE IRREGULARITIES –**

Part 3: ETD-cores, EER-cores, EC-cores and E-cores

FOREWORD

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International Standard IEC 60424-3 has been prepared IEC technical committee 51: Magnetic components and ferrite materials.

This second edition cancels and replaces the first edition published in 1999. This edition constitutes a technical revision.

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

- a) addition of allowable areas of chips for EC-cores in Table 3,
- b) addition of crystallites in 4.5 and pores in 4.6.

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

FDIS	Report on voting
51/1099/FDIS	51/1114/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 60424 series, published under the general title *Ferrite cores – Guidelines on the limits of surface irregularities*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website 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.

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FERRITE CORES – GUIDELINES ON THE LIMITS OF SURFACE IRREGULARITIES –

Part 3: ETD-cores, EER-cores, EC-cores and E-cores

1 Scope

This part of IEC 60424 gives guidelines on allowable limits of surface irregularities applicable to ETD-cores, EER-cores, EC-cores and E-cores in accordance with the relevant general specification.

This standard is a specification useful in the negotiations between ferrite core manufacturers and customers about surface irregularities.

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.

IEC 60424-1¹, *Ferrite cores – Guidelines on the limits of surface irregularities – Part 1: General specification*

IEC 60647, *Dimensions for magnetic oxide cores intended for use in power supplies (EC-cores)*

IEC 61185, *Ferrite cores (ETD-cores) intended for use in power supply applications – Dimensions*

IEC 62317-7, *Ferrite cores – Dimensions – Part 7: EER-cores*

IEC 62317-8, *Ferrite cores – Dimensions – Part 8: E-cores*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

pore

hole left on the surface of cores after sintering and surface finishing

3.2

crystallite

grain of abnormal size distinguishable on the surface, often with sparkling facets

¹ To be published.