

# INTERNATIONAL STANDARD

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**Terms and nomenclature for cores made of magnetically soft ferrites –  
Part 1: Terms used for physical irregularities and reference of dimensions**





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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**TERMS AND NOMENCLATURE FOR CORES MADE  
OF MAGNETICALLY SOFT FERRITES –****Part 1: Terms used for physical irregularities  
and reference of dimensions**

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International Standard IEC 60401-1 has been prepared by IEC technical committee 51: Magnetic components, ferrite and magnetic powder materials.

This second edition cancels and replaces the first edition of IEC 60401-1 published in 2002 and the second edition of IEC 60401-2 published in 2009. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous editions of IEC 60401-1 and IEC 60401-2:

- a) added the surface irregularity term "pores" in 4.3.1.6;
- b) added the surface irregularity term "scratch" in 4.3.6.3;
- c) removed the surface irregularity term "crater" in 4.1.5 of IEC 60401-1: 2002;

- d) removed the bulk irregularity terms “superpores” in 5.1, “inclusions” in 5.2, “internal stratification” in 5.3 and “internal crack” in 5.4 of IEC 60401-1: 2002;
- e) removed the contents related to “yoke ring cores” in 7.1.3 and 7.4 of IEC 60401-1:2002;
- f) replaced the surface irregularity term “stratification” with “lamination” in 4.3.4.7;
- g) replaced the location related terms “upper surface of back” with “bottom surface” and “lower surface of back” with “back surface” in Figure A.1;
- h) changed Clause 7 of IEC 60401-1:2002 into Annex A.

The text of this International Standard is based on the following documents:

CDV	Report on voting
51/1313/CDV	51/1332/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 60401 series, published under the general title *Terms and nomenclature for cores made of magnetically soft ferrites* 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.