

STN	Klasifikácia jadier magnetických práškov	STN EN IEC 63299 35 8476
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Classification of magnetic powder cores

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/23

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EUROPEAN STANDARD

EN IEC 63299

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2022

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English Version

**Classification of magnetic powder cores
(IEC 63299:2022)**Classification des noyaux en poudre magnétique
(IEC 63299:2022)Klassifizierung magnetischer Pulverkerne
(IEC 63299:2022)

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EN IEC 63299:2022 (E)**European foreword**

The text of document 51/1403/CDV, future edition 1 of IEC 63299, prepared by IEC/TC 51 "Magnetic components, ferrite and magnetic powder materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63299:2022.

The following dates are fixed:

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where 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 60050-221	-	International Electrotechnical Vocabulary - - Part 221: Magnetic materials and components		-
IEC 60404-1	-	Magnetic materials - Part 1: Classification	EN 60404-1	-
IEC 63300 ¹	-	Test methods for electrical and magnetic properties of magnetic powder cores	EN IEC 63300 ²	-

¹ Under preparation. Stage at the time of publication: IEC CDV 63300:2022.

² Under preparation. Stage at the time of publication: prEN IEC 63300:2022.



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Edition 1.0 2022-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Classification of magnetic powder cores

Classification des noyaux en poudre magnétique





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IEC 63299

Edition 1.0 2022-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Classification of magnetic powder cores

Classification des noyaux en poudre magnétique

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CLASSIFICATION OF MAGNETIC POWDER CORES

FOREWORD

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IEC 63299 has been prepared by IEC technical committee 51: Magnetic components, ferrite and magnetic powder materials. It is an International Standard.

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

Draft	Report on voting
51/1403/CDV	51/1413/RVC

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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

CLASSIFICATION OF MAGNETIC POWDER CORES

1 Scope

This document specifies classification rules for metallic magnetic powder cores used in inductive components fulfilling the requirements of the electronics industries.

This document addresses the following objectives for magnetic powder cores suppliers and users:

- cross-reference between core materials from multiple suppliers;
- assistance to users in understanding the published technical data in catalogues when comparing multiple suppliers;
- guidance to users in selecting the most applicable core for each application;
- establishing uniform benchmarks for suppliers for performance in the new development of core material.

The numerical values given in this document are typical values of parameters of the related material. Direct translation from the material specification into the core specification is not always easy or possible.

Every detailed material and core specification will be agreed upon between the user and the supplier.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-221, *International Electrotechnical Vocabulary (IEV) – Part 221: Magnetic materials and components*

IEC 60404-1, *Magnetic materials – Part 1: Classification*

IEC 63300¹, *Test methods for electrical and magnetic properties of magnetic powder cores*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹ Under preparation. Stage at the time of publication: IEC CDV 63300:2022.