International Standard

ISO 16468

# Investment castings (steel, nickel alloys and cobalt alloys) — General technical requirements

*Pièces moulées en cire perdue (acier, alliages de nickel et alliages de cobalt) — Exigences techniques générales*

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# Foreword

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This document was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 11, *Steel castings*.

This third edition cancels and replaces the second edition (ISO 16468:2015), which has been technically revised.

The main changes are as follows:

— former subclauses 5.2.1 to 5.2.4 have been relabelled a to d, with revised wording to c.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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# Investment castings (steel, nickel alloys and cobalt alloys) — General technical requirements

## 1 Scope

This document specifies technical requirements for castings (steel, nickel alloys, and cobalt alloys) produced by the investment casting process.

NOTE The International Standards specifying metallurgical material requirements for steel, nickel alloy, and cobalt alloy casting grades are listed in the Bibliography.

The requirements stated in this document form an integral part of the material specification. In cases of conflict, the requirements of this specification take precedence over the individual material specification requirements.

## 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.

ISO 4986, *Steel and iron castings — Magnetic particle testing*

ISO 4987, *Steel and iron castings — Liquid penetrant testing*

ISO 4990, *Steel castings — General technical delivery requirements*

ISO 4992-1, *Steel castings — Ultrasonic testing — Part 1: Steel castings for general purposes*

ISO 4992-2, *Steel castings — Ultrasonic testing — Part 2: Steel castings for highly stressed components*

ISO 4993, *Steel and iron castings — Radiographic testing*

ISO 6506-1, *Metallic materials — Brinell hardness test — Part 1: Test method*

ISO 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method*

ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method*

ISO 10474, *Steel and steel products — Inspection documents*

ISO 11970, *Specification and qualification of welding procedures for production welding of steel castings*

ISO 13520, *Determination of ferrite content in austenitic stainless steel castings*

## 3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

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