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**2022-11-03**

**Centrifugally cast steel and alloy products —  
Part 1:  
General testing and tolerances**

**Produits en acier et alliages moulés par centrifugation — Partie 1:  
Conditions générales d'essais et tolérances**

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ISO/FDIS 13583-1

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Ch. de Blandonnet 8 • CP 401

CH-1214 Vernier, Geneva, Switzerland Tel. +41 22 749 01 11

Fax +41 22 749 09 47

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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For an explanation ~~of the voluntary nature of standards~~, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ~~ISO's~~ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html) ~~the following URL:-~~.

This document was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee ~~SC11~~SC 11, *Steel Castings castings*.

This third edition cancels and replaces the ~~first~~second edition (ISO 13583-1:2015), ~~of which has been editorially revised with the following~~it constitutes a minor revision. The changes are as follows:

- updated titles to normative references;
- ~~Conform to the most recent version~~editorial update.

A list of all parts in the ISO/IEC Directives, Part 2:-

~~—~~Wording consistency to align with other ISO documents.

~~editorially revised to conform~~ISO 13583 ~~consistss~~series can be found on the ISO website.

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](http://www.iso.org/members.html) ~~the following parts, under the general title,~~

Centrifugally cast steel and alloy products:

**— Part 1: General testing and tolerances**

~~— Part 2: Materials~~

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# ~~Centrifugally cast steel and alloy products —~~

## ~~Part 1:~~

### ~~General testing and tolerances~~

#### 241 Scope

This document specifies the requirements for horizontal and vertical centrifugally cast steel and alloy products to be used in the following applications:

- a) heat resisting;
- b) corrosion resisting;
- c) general engineering.

#### 252 Normative references

ISO/FDIS 13583-1

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The following documents are referred to in the ~~test 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 3651-1, *Determination of resistance to intergranular corrosion of stainless steels — Part 1: Austenitic and ferritic-austenitic (duplex) stainless steels — Corrosion test in nitric acid medium by measurement of loss in mass (Huey test)*

ISO 3651-2, *Determination of resistance to intergranular corrosion of stainless steels — Part 2: Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels — Corrosion test in media containing sulfuric acid*

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 castings — Radiographic testing*

ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature*