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Centrifugally cast steel and alloy products —

Part 2: Heat-resistant materials

Produits en acier et alliages moulés par centrifugation —

Partie 2: Aciers moulés réfractaires

Reference number
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Foreword

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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).

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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 13583-2:2015), of which it constitutes a minor revision. The changes are as follows:

— editorial update.

A list of all parts in the ISO 13583 series can be found on the ISO website.

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Centrifugally cast steel and alloy products —

Part 2:
Heat-resistant materials

1 Scope

This document specifies cast steel and nickel alloy grades for elevated temperature service products manufactured by centrifugal casting.

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 4990, *Steel castings — General technical delivery requirements*

ISO 13583-1, *Centrifugally cast steel and alloy products — Part 1: General testing and tolerances*

3 Terms and definitions

No terms and definitions are listed in this document.

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/

4 General technical delivery conditions

Cast steel and alloy grades specified by this document shall conform to the applicable requirements of ISO 4990 and ISO 13583-1, including the supplementary requirements that are indicated in the enquiry and purchase order.

5 Heat treatment

The cast steel and alloy grades specified by this document do not require heat treatment. If heat treatment is required, the treatment shall be established by agreement between the manufacturer and the purchaser, and shall be specified in the purchase contract.

6 Chemical composition

The cast steel and nickel alloy grades shall conform to the chemical composition listed in Table 1.

7 Mechanical properties

The cast steel and nickel alloy grades shall conform to the requirements given in Tables 2 and 3.

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