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Corrosion-resistant cast steels for general applications Aciers moulés résistant à la corrosion pour applications coura

Aciers moulés résistant à la corrosion pour applications courantes



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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 document 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 SC11, *Steel castings*.

This third edition cancels and replaces the second edition (ISO 11972:2015), which has been technically revised.

The main changes are as follows:

- the mandatory Terms and definitions clause (see <u>Clause 3</u>) has been added and subsequent clauses have been renumbered;
- the title for <u>Table 1</u> has been changed;
- supplementary requirements (see <u>Clause 8</u>) has been updated;
- the document has been editorially revised to conform to the most recent version of the ISO/ IEC Directives, Part 2.

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 <u>www.iso.org/members.html</u>.

Corrosion-resistant cast steels for general applications

1 Scope

This document specifies cast steels for general corrosion-resistant applications. The grades covered by this document represent types of alloy steel castings suitable for broad ranges of application which are intended for a wide variety of corrosion applications.

NOTE <u>Annex A gives information on ISO grade designation and available UNS numbers which are similar to the ISO grade designation.</u>

2 Normative reference

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 conditions

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 conditions for delivery

Materials furnished according to this document shall conform to the applicable requirements of ISO 4990 including the supplementary requirements that are indicated on the inquiry and purchase order.

5 Chemical composition

The steel shall conform to the requirements for chemical composition specified in <u>Table 1</u>.

6 Mechanical properties

Steel used for castings shall conform to the mechanical property requirements given in <u>Table 2</u> up to the maximum ruling thickness. Verification of impact tests is not required except when indicated by the customer. Test blocks used to verify mechanical properties shall not have a thickness exceeding 150 mm. For samples removed from castings, the mechanical properties required shall be agreed between the manufacturer and purchaser.

7 Heat treatment

Castings shall be heat-treated in accordance with the requirements in Table 3.