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## Steels — Cast tool steels

*Aciers — Aciers moulés à outil*

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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)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 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).

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

This second edition cancels and replaces the first edition (ISO 10679:2010) which has been technically revised. It also incorporates the Technical Corrigendum ISO 10679:2010/Cor.1:2010. The main changes compared to the previous edition are as follows:

- Grade numbers have been added to [Tables 1](#) and [2](#) and [Annex A](#);
- When available, UNS numbers have been added to [Annex A](#).

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).

# Steels — Cast tool steels

## 1 Scope

This document specifies tool steel compositions for castings.

NOTE [Annex A](#) gives information on ISO grade designation and available UNS numbers which are similar to the ISO grade designation.

## 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*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4990 apply.

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

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

## 4 Information to be supplied by the purchaser

The purchaser shall supply, in the enquiry and order, the following information:

- a) the grade required (see [Table 1](#));
- b) the heat treatment condition, including none or as-cast, for delivery to purchaser and, if required, Brinell hardness related to composition and heat treatment;
- c) the surfaces which will be machined by the purchaser or user;
- d) part drawings or solid model for each casting.

## 5 General conditions for delivery

Materials delivered in accordance with this document shall conform to the applicable requirements of ISO 4990, including the supplementary requirements that are indicated on the enquiry and purchase order. Welding may be carried out only when approved by the purchaser.

## 6 Chemical composition

The chemical composition shall conform to the values given in [Table 1](#).

## 7 Heat treatment

Heat treatment shall be agreed between the manufacturer and the purchaser. The annealing temperature and Brinell hardness given in [Table 2](#) are for information only.

## 8 Marking

Marking shall be as specified in ISO 4990.

## 9 Supplementary requirements

A list of normative supplementary requirements for use at the option of the purchaser is included in ISO 4990 and is ordinarily considered suitable for use with this document. The supplementary requirements shall only apply when agreed upon by the manufacturer and purchaser as specified on the enquiry and purchase order.

Other requirements may be specified upon agreement between the manufacturer and purchaser.

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