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Steels — Cast tool steels

Aciers — Aciers moulés à outil

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Foreword

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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 adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see 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.

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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.

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