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Austenitic manganese steel castings

Pièces moulées en acier austénitique au manganèse

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Foreword

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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 13521:2015), of which it constitutes a minor revision. The changes are as follows:

— editorial update;

— Clause 5 update;

— Clause 2 update.

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Austenitic manganese steel castings

1 Scope

This document specifies austenitic manganese cast steels for wear-resistant service. The grades covered by this document will experience maximum service life in applications where the surface of the casting is subject to impact.

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 7438, *Metallic materials — Bend test*

ISO 6506 (all parts), *Metallic materials — Brinell hardness test*

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 of delivery

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

5 Heat treatment

Solution heat treat at temperatures not lower than 1 040 °C and quenched in water.

Grade GX90MnMo14 may be supplied without heat treatment if the casting thickness is less than 45 mm and the carbon content is less than 0,8 %.

6 Chemical composition

The steel shall conform to the requirements for chemical composition specified in Table 1.

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