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Magnesium and magnesium alloys — Magnesium alloys for cast anodes

Magnésium et alliages de magnésium — Alliages de magnésium pour anodes coulées

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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).

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).

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.

This document was prepared by Technical Committee ISO/TC 79, *Light metals and their alloys*, Subcommittee SC 5, *Magnesium and alloys of cast or wrought magnesium*.

This second edition cancels and replaces the first edition (ISO 26202:2007), which has been technically revised. The main changes compared with the previous edition are as follows:

a) a note has been added in 4.1;

b) in Clause 5, the compositions in Tables 1 and 2 have been updated;

c) in Clause 5, EN-MBMgAl6Zn1 has been deleted and the designations “EN-” have been replaced with “ISO-”;

d) “Sampling” has been included as 6.1;

e) “Packaging and surface protection” has been added as Clause 8;

f) in Annex C, cross-references of grade designations of this document to other standard grades of magnesium alloys for cast anodes have been added.

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.

Introduction

This document classifies magnesium alloys for cast anodes into a number of grades suitable for the applications for which they might be used. Annexes A and B describe methods for electrochemical tests with corresponding recommended values. Annex C gives cross-references of grade designations of this document to other standard grades of magnesium alloys for cast anodes.

Magnesium and magnesium alloys — Magnesium alloys for cast anodes

1 Scope

This document specifies the grades and the corresponding requirements for magnesium alloy ingots for anodes and for magnesium alloy cast anodes.

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 80000-1:2009, *Quantities and units — Part 1: General*

EN 1559-1, *Founding — Technical conditions of delivery — Part 1: General*

EN 1559-5, *Founding — Technical conditions of delivery — Part 5: Additional requirements for magnesium alloy castings*

3 Terms and definitions

No terms and definitions are listed in this document.

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 Designations

4.1 Material

The material shall be designated either by symbol or by number (see Tables 1 and 2).

NOTE Cross-references of grade designations of this document to other standard grades of magnesium alloys for cast anodes are given in Annex C.

4.2 Casting process

The following symbols shall be used for the different casting processes:

— S: sand casting;

— K: permanent mould casting (gravity);

— C: continuous casting.