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BSI Standards Publication

Magnesium and magnesium alloys — Designation system for anodes, ingots and castings — Material symbols and material numbers

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The UK participation in its preparation was entrusted to Technical Committee ISE/111, Steel Castings and Forgings.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Magnesium und Magnesiumlegierungen - Bezeichnungssystem für Anoden, Blockmetalle und Gussstücke - Werkstoffkurzzeichen und Werkstoffnummern

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Contents

Page

European foreword **3**

Introduction **4**

1 Scope **5**

2 Terms and definitions **5**

3 Designation by numbers **5**
3.1 General **5**
3.2 Structure of the designation **5**

4 Designation by symbols **6**
4.1 General **6**
4.2 Structure of the designation **7**

Annex A (normative) **Overall structure for designation by numbers** **9**

Annex B (normative) **Overall structure for designation by symbols** **10**

Annex C (informative) **Significant technical changes between this European Standard and the previous edition** **11**

Bibliography **12**

European foreword

This document (EN 1754:2015) has been prepared by Technical Committee CEN/TC 190 “Foundry technology”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2016 and conflicting national standards shall be withdrawn at the latest by February 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1754:1997.

Annex C provides details of significant technical changes between this European Standard and the previous edition.

Within its programme of work, Technical Committee CEN/TC 190 requested CEN/TC 190/WG 1 “Technical conditions of delivery and cast material designation” to revise EN 1754:1997, *Magnesium and magnesium alloys - Magnesium and magnesium alloy anodes, ingots and castings - Designation system.*

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Introduction

Magnesium and magnesium alloy anodes, ingots and castings can be designated either by numbers or by symbols for all grades.

In this revised standard, a designation system by number, similar to that described in EN 10027-2 [1], is specified.

1 Scope

This European Standard specifies a material designation system for magnesium and magnesium alloys either by numbers or by symbols for castings including anodes and ingots intended for remelting.

The designation system by numbers is only applicable to standardized magnesium and magnesium alloys (see 2.1).

The designation system by symbols is applicable to

a) standardized magnesium and magnesium alloys (see 2.1);

b) non-standardized magnesium and magnesium alloys (see 2.2).

NOTE 1 The standardized designation by symbols does not necessarily imply that the material is standardized.

NOTE 2 Magnesium and magnesium alloys for aerospace applications referred to in European Standards prepared by AECMA (fr: Association Européenne des Constructeurs de Matériel Aérospatial) have different designations.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1
standardized magnesium and magnesium alloy
magnesium and magnesium alloy specified in a European Standard

2.2
non-standardized magnesium and magnesium alloy
magnesium and magnesium alloy not specified in a European Standard

3 Designation by numbers

3.1 General

There shall be only one designation by number for each magnesium grade or each magnesium alloy.

The designation system by numbers is based on the principles and the structure as set out in EN 10027-2 [1].

3.2 Structure of the designation

3.2.1 Overall structure

The designation shall comprise six characters.

The positions shall be in accordance with Table 1:

Table 1 — Number structure

Position	1	2	3	4	5	6
Character	n	.	n	n	n	n
n: Arabic number						

The whole structure of the designation by numbers is shown in Table A.1.