

Magneesium ja magneesiumisulamid. Magneesiumisulamid anoodide valamiseks

Magnesium and magnesium alloys - Magnesium
alloys for cast anodes

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12438:2000 sisaldab Euroopa standardi EN 12438:1998 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 11.01.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12438:2000 consists of the English text of the European standard EN 12438:1998.</p> <p>This document is endorsed on 11.01.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: See Euroopa standard määrab kindlaks anoodide jaoks ettenähtud magneesiumisulamist valukangide keemilise koostise ja magneesiumisulamist valatud anoodide keemilise koostise.</p>	<p>Scope:</p>
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ICS 77.120.20

Võtmesõnad: anoodid, elektrokeemilised meetodid, keemiline koostis, kvaliteet, magneesium, magneesiumisulamid, tehnilised andmed, teimid, tähistus, valandid, valukangid

ICS 77.120.20; 77.150.10

Descriptors: Magnesium, magnesium alloys, anodes.

English version

Magnesium and magnesium alloys
Magnesium alloys for cast anodes

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

Magnesium und Magnesiumlegierungen – Magnesiumlegierungen für Gußanoden

This European Standard was approved by CEN on 1998-03-25.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Contents

	Page		Page
Foreword	2	5.2 Electrochemical testing	5
Introduction	3	6 Rounding of numbers	5
1 Scope	3	Annex A (normative) Test method for the determination of the electrode potential of galvanic anodes	6
2 Normative references	3	Annex B (normative) Test method for the determination of the rate of mass loss of galvanic anodes	8
3 Designations	3	Annex C (informative) List of corresponding international designations and former national designations	11
3.1 Material	3	Annex D (informative) Bibliography	11
3.2 Casting process	3		
4 Requirements	3		
4.1 General	3		
4.2 Chemical composition	3		
5 Testing	5		
5.1 Analysis of chemical composition	5		

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 190 "Foundry technology", the secretariat of which is held by DIN.

Within its programme of work, Technical Committee CEN/TC 190 requested CEN/TC 190/WG 3.10 "Cast magnesium" to prepare the following standard :

EN 12438

Magnesium and magnesium alloys - Magnesium alloys for cast anodes

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 October 1998, and conflicting national standards shall be withdrawn at the latest by October 1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This European Standard classifies the commercially available magnesium anode alloys into a number of grades suitable for the applications to which they might be put. The annexes A and B describe methods for electrochemical tests with corresponding recommended values. Annex C gives a list of corresponding international designations and former national designations.

1 Scope

This European Standard specifies the chemical composition of magnesium alloy ingots for anodes and chemical composition of magnesium alloy anode castings.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

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

ISO 31-0 : 1992

Quantities and units – Part 0: General principles

NOTE: Informative references to documents used in the preparation of this standard, and cited at the appropriate places in the text, are listed in a bibliography, see annex D.

3 Designations

3.1 Material

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

3.2 Casting process

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

- S Sand casting;
- K Permanent mould casting (gravity);
- C Continuous casting.

4 Requirements

4.1 General

The requirements for technical delivery conditions given in EN 1559-1 and EN 1559-5 shall apply.

4.2 Chemical composition

The chemical composition of magnesium based alloy ingots for anodes shall conform to the requirements for the appropriate material given in table 1. The chemical composition of magnesium based alloy anode castings shall conform to the requirements for the appropriate material given in table 2.