Alumiinium ja alumiiniumisulamid. Ümbersulatuseks ette nähtud legeervaluplokid. Tehnilised nõuded

Aluminium and aluminium alloys - Alloyed ingots for O (S remelting - Specifications



FESTI STANDARDI FESSÕNA

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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1676:2010 sisaldab Euroopa standardi EN 1676:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.04.2010 käskkirjaga ja jõustub sellekohase

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 10.03.2010.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 1676:2010 consists of the English text of the European standard EN 1676:2010.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.04.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 10.03.2010.

The standard is available from Estonian standardisation organisation.

ICS 77.150.10

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EUROPEAN STANDARD NORME EUROPÉENNE

EN 1676

EUROPÄISCHE NORM

March 2010

ICS 77.150.10

Supersedes EN 1676:1996

English Version

Aluminium and aluminium alloys - Alloyed ingots for remelting - Specifications

Aluminium et alliages d'aluminium - Lingots pour refusion en aluminium allié - Spécifications

Aluminium and Aluminiumlegierungen - Legiertes Aluminium in Masseln - Spezifikationen

This European Standard was approved by CEN on 6 February 2010.

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This European Standard exists 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 CEN Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 1676:2010) has been prepared by Technical Committee CEN/TC 132 "Aluminium and aluminium alloys", the secretariat of which is held by AFNOR.

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 September 2010, and conflicting national standards shall be withdrawn at the latest by September 2010.

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.

CEN/TC 132 affirms it is its policy that in the case when a patentee refuses to grant licences on standardised standard products under reasonable and not discriminatory conditions, then this product shall be removed from the corresponding standard.

This document supersedes EN 1676:1996.

Within its programme of work, Technical Committee CEN/TC 132 entrusted CEN/TC 132/WG 10 "Castings" to revise EN 1676:1996.

In addition to some additional minor and editorial changes, the following technical modifications were introduced during the revision:

- a) New normative references were added (EN 12258-1, EN 14242 and EN 14361). Normative reference to EN ISO 9000-1 was deleted.
- b) Term and definition 3.8, order document, was added.
- c) New notes on Clauses 5.3 and 5.5 were added.
- d) Clause 6.1, Chemical analysis, was modified.
- e) New note on Clause 6.2 was added.
- f) Clause 6.3, Rounding rules for determination of compliance, was added.
- g) In Table 1, the following alloys were deleted:
 - 1) EN AB-45200 [EN AB-AI Si5Cu3Mn];
 - 2) EN AB-51000 [EN AB-Al Mg3(b)];
 - 3) EN AB-71000 [EN AB-Al Zn5Mg].
- h) In Table 1, the following new alloys were added:
 - 1) EN AB-21200 [EN AB-AI Cu4MnMg];
 - 2) EN AB-43500 [EN AB-AI Si10MnMg];
 - 3) EN AB-44500 [EN AB-Al Si12(Fe)(b)];
 - 4) EN AB-45500 [EN AB-AI Si7Cu0,5Mg];

- 5) EN AB-48100 [EN AB-AI Si17Cu4Mg];
- 6) EN AB-51500 [EN AB-Al Mg5Si2Mn];
- 7) EN AB-71100 [EN AB-AI Zn10Si8Mg].
- i) In Table 1, footnotes "b" to "f" were added.
- j) A Bibliography was also added.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech s and, atherian, ted Kingdo. Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard defines the requirements for grades of alloyed aluminium ingots intended for remelting.

It specifies the classifications and designations applicable to these grades, the conditions in which they are produced, their properties and the marks by which they are identified.

2 Normative references

The following referenced documents are indispensable for the application 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.

EN 1780-1, Aluminium and aluminium alloys — Designation of alloyed aluminium ingots for remelting, master alloys and castings — Part 1: Numerical designation system

EN 1780-2, Aluminium and aluminium alloys — Designation of alloyed aluminium ingots for remelting, master alloys and castings — Part 2: Chemical symbol based designation system

EN 1780-3, Aluminium and aluminium alloys — Designation of alloyed aluminium ingots for remelting, master alloys and castings — Part 3: Writing rules for chemical composition

EN 12258-1:1998, Aluminium and aluminium alloys — Terms and definitions — Part 1: General terms

EN 14242, Aluminium and aluminium alloys — Chemical analysis — Inductively coupled plasma optical emission spectral analysis

EN 14361, Aluminium and aluminium alloys — Chemical analysis — Sampling from metal melts

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12258-1:1998 and the following apply.

3.1

alloy

metallic material, homogeneous on a macro scale, consisting of two or more elements so combined that they cannot readily be separated by physical means

[EN 12258-1:1998, 3.2.1]

3.2

alloying element

metallic or non-metallic element intentionally added to, or naturally contained by, a basic metal and the amount of which is controlled within specific upper and lower limits for the purpose of giving that metal certain special properties

[EN 12258-1:1998, 3.2.2]

3.3

impurity

metallic or non-metallic element present but not intentionally added to a metal, and the minimum content of which is not controlled

[EN 12258-1:1998, 3.2.3]