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BS EN 573-3:2013



BSI Standards Publication

Aluminium and aluminium alloys — Chemical composition and form of wrought products

Part 3: Chemical composition and form of products

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This British Standard is the UK implementation of EN 573-3:2013. It supersedes BS EN 573-3:2009 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee NFE/35, Light metals and their alloys.

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

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Aluminium und Aluminiumlegierungen - Chemische Zusammensetzung und Form von Halbzeug - Teil 3: Chemische Zusammensetzung und Erzeugnisformen

This European Standard was approved by CEN on 15 August 2013.

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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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN 573-3:2013) 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of an identical text or by endorsement, at the latest by April 2014, and conflicting national standards shall be withdrawn at the latest by April 2014.

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 573-3:2009.

CEN/TC 132 affirms its policy that if a patentee refuses to grant licenses on standardized products under reasonable and not discriminatory conditions, this product will be removed from the corresponding document.

Within its programme of work, Technical Committee CEN/TC 132 entrusted CEN/TC 132/WG 7 "Sheets, strips and plates" to revise EN 573-3:2009.

CEN/TC 132 has decided to revise this European Standard as follows:

- addition of the alloy EN AW-4115 in Table 4 and Table A.4;
- addition of the alloy EN AW-5449A in Table 5 and Table A.5;
- addition of the alloys EN AW-6026 and EN AW-6064A in Table 6 and Table A.6;
- correction of a typing error in the chemical symbol of EN AW-6023 in Table A.6.

EN 573 comprises the following parts under the general title "*Aluminium and aluminium alloys — Chemical composition and form of wrought products*":

- *Part 1: Numerical designation system*
- *Part 2: Chemical symbol based designation system*
- *Part 3: Chemical composition and form of products*
- *Part 5: Codification of standardized wrought products*

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

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1 Scope

This European Standard specifies the chemical composition limits of wrought aluminium and wrought aluminium alloys and form of products.

The chemical composition limits of aluminium and aluminium alloys specified herein are completely identical with those registered with the Aluminum Association, 1525, Wilson Boulevard, Suite 600, Arlington, VA 22209, USA, for the corresponding alloys.

Guidelines for the introduction of new wrought aluminium and wrought aluminium alloys in standards are presented in Annex B.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 573-2, *Aluminium and aluminium alloys — Chemical composition and form of wrought products — Part 2: Chemical symbol based designation system*

3 Chemical composition limits

The chemical composition of aluminium and aluminium alloys is specified in percentage by mass in Table 1 to Table 8. Limits of impurities are expressed as a maximum; limits of alloying elements shown as a range aluminium is specified as a minimum for unalloyed aluminium, and as a remainder for aluminium alloys.

The chemical composition of internationally registered wrought aluminium and wrought aluminium alloys not listed in this document can be found in Teal sheet [1].

Analysis shall be made for elements which are specified, for example Pb, Sn, Bi, Sb, Zr.

4 Writing rules

4.1 Standard limits for alloying elements and impurities are expressed in percentage by mass to the following decimal places:

— less than 0,001 %	0,000 X;
— 0,001 % but less than 0,01 %	0,00X;
— 0,01 % but less than 0,10 %:	
— unalloyed aluminium made by a refining process	0,0XX;
— others	0,0X;
— 0,10 % to 0,55 %	0,XX;
— over 0,55 %	0,X; X,X; XX,X.

Exception: combined Si + Fe limits for 1xxx designations shall be expressed as 0,XX or 1,XX.