

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

Part 3: Chemical composition

The European Standard EN 573-3:2003 has the status of a
British Standard

ICS 77.120.10; 77.150.10

National foreword

This British Standard is the official English language version of EN 573-3:2003. It supersedes BS EN 573-3:1995 which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee NFE/35, Light metals and their alloys, to Subcommittee NFE/35/5, Wrought aluminium and aluminium alloys, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

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This European Standard was approved by CEN on 23 May 2003.

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Foreword

This document (EN 573-3:2003) 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of an identical text or by endorsement, at the latest by January 2004, and conflicting national standards shall be withdrawn at the latest by January 2004.

Within its programme of work, Technical Committee CEN/TC 132 has been entrusted to prepare the following standard:

EN 573-3, *Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 3: Chemical composition.*

This standard is part of a set of five standards. The other standards deal with:

EN 573-1, *Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 1: Numerical designation system.*

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

EN 573-4, *Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 4: Forms of products.*

prEN 573-5, *Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 5: Codification of standardized wrought products.*

Annex A is normative.

This document includes a Bibliography.

This document supersedes EN 573-3:1994.

CEN/TC 132 has decided to revise this standard every two years if necessary.

The following technical modifications have been introduced during the revision:

- clause 1: note modified;
- clause 6: titanium appears now after zinc; gallium and vanadium added;
- clause 8 added: notes for Tables 1 to 8;
- Tables 1 to 8: the column "Ti" appears now after the columns "Zn";
- Table 3: alloys EN AW-3005A and EN AW-3105B added;
- Table 4: alloy EN AW-4014 deleted; alloys EN AW-4016, EN AW-4017 and EN AW-4018 added;
- Table 5: alloys EN AW-5119A, EN AW-5449, EN AW-5654A, EN AW-5356A, EN AW-5456B, EN AW-5556B, EN AW-5183A, EN AW-5383, EN AW-5186 and EN AW-5187 added;

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- Table 6: alloys EN AW-6008 and EN AW-6016 added;
- Table 8: alloys EN AW-8021B and EN AW-8015 added;
- annex A added: Guidelines for the registration of new wrought aluminium and aluminium alloys in CEN/TC 132 standards and for the elimination of existing alloys from these standards.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

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

The chemical composition limits of aluminium and aluminium alloys specified herein are completely identical with those registered with the Aluminum Association, Washington D.C. 20006, USA, for the corresponding alloys.

NOTE Some of the products listed in the present standard can be subject to patent or patent applications, and their listing herein should not be construed in any way as the granting of a licence under such patent rights.

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

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 (including amendments).

EN 573-1, *Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 1: Numerical designation system.*

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

EN 573-4:1994, *Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 4: Forms of products.*

3 Chemical composition limits

The chemical composition of aluminium and aluminium alloys is specified in percentage by mass in Tables 1 to 8. Limits are expressed as a maximum unless shown as a range or a minimum.

Aluminium is specified as a minimum for unalloyed aluminium, and as a remainder for aluminium alloys.

Except for “aluminium” and “others”, analysis is normally made for elements for which specific limits are shown.

Tables 1 to 8 shall be updated made according to the procedure specified in annex A.