



# SLOVENSKI STANDARD

## SIST EN 573-4:2004

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### Aluminium and aluminium alloys - Chemical composition and form of wrought products - Part 4: Forms of products

Aluminium and aluminium alloys - Chemical composition and form of wrought products - Part 4: Forms of products

Aluminium und Aluminiumlegierungen - Chemische Zusammensetzung und Form von Halbzeug - Teil 4: Erzeugnisformen

Aluminium et alliages d'aluminium - Composition chimique et forme des produits corroyés - Partie 4: Formes des produits

Ta slovenski standard je istoveten z: **EN 573-4:2004**

#### **ICS:**

77.040.30	Kemijska analiza kovin	Chemical analysis of metals
77.150.10	Aluminijski izdelki	Aluminium products

**SIST EN 573-4:2004** en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 573-4

January 2004

ICS 77.150.10; 77.120.10

Supersedes EN 573-4:1994

English version

## Aluminium and aluminium alloys - Chemical composition and form of wrought products - Part 4: Forms of products

Aluminium et alliages d'aluminium - Composition chimique et forme des produits corroyés - Partie 4: Formes des produits

Aluminium und Aluminiumlegierungen - Chemische Zusammensetzung und Form von Halbzeug - Teil 4: Erzeugnisformen

This European Standard was approved by CEN on 4 December 2003.

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.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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## Foreword

This document (EN 573-4:2004) 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 July 2004, and conflicting national standards shall be withdrawn at the latest by July 2004.

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

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

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

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

This document supersedes EN 573-4:1994.

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

The following technical changes have been introduced during the revision :

- clause 1 : note modified ;
- Tables 1 to 8 : columns « Rolling ingots » and « Extrusion ingots » deleted ;  
column « Extruded and drawn products » split up ;
- Table 3 : alloys EN AW-3105B and EN AW-3005A 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 ;
- Table 6 : alloys EN AW-6008 and EN AW-6016 added ;
- Table 8 : alloys EN AW-8021B and EN AW-8015 added ;
- Annexes A and B : added.

Annex A is normative. Annex B is informative.

**EN 573-4:2004 (E)**

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.

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## 1 Scope

This European Standard gives the forms of products which are currently available for wrought aluminium and aluminium alloys, for each major field of application.

It applies to aluminium and aluminium alloys with the chemical compositions specified in EN 573-3.

**NOTE** Some of the products listed in the present standard can be subject to patent or patent applications, and their listing herein does not in any way imply the granting of a licence under such patent right.

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.

It uses the four-figure numerical and the alternative chemical symbol based alloy designation systems specified respectively in EN 573-1 and EN 573-2.

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

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

EN 602, *Aluminium and aluminium alloys - Wrought products - Chemical composition of semi products used for the fabrication of articles for use in contact with food.*

## 3 Classification

For the purposes of this part of this European Standard, aluminium and aluminium alloys are classified into two classes, A and B, as follows.

**Class A** : Aluminium and aluminium alloys for the relevant field of application, for which the mechanical properties are specified in the corresponding European Standard (see annex B) ;

**Class B** : Aluminium and aluminium alloys produced in limited volume for the relevant field of application, and/or Aluminium and aluminium alloys used for special applications not covered by a European Standard. The mechanical properties of these alloys are not specified in the corresponding European Standard when one exists.

**NOTE 1** Tolerances on dimensions and form, as specified in the relevant European Standards, apply to both "Class A" and "Class B" aluminium and aluminium alloys.

**NOTE 2** Aluminium and aluminium alloys for aerospace applications, which are standardized by AECMA but stand outside the field of general engineering, are in "Class B". Their mechanical properties and tolerances on form and dimensions are specified in the relevant European Aerospace Standards.

## 4 Forms of products

Tables 1 to 8 give, for each major field of application, the availability of each alloy as defined by their classification as a "Class A" or a "Class B" alloy.

## EN 573-4:2004 (E)

The last column indicates whether the alloy is in conformity [Y or N (Yes or No)] with EN 602, which specifies the requirements for the chemical composition of wrought aluminium and aluminium alloys used for the production of materials and articles intended to be in contact with food.

The informative annex B indicates which European Standards specify mechanical properties for the product groups according to Tables 1 to 8.

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Table 1 — Applications and forms of products — 1000 series

Alloy designation		Forgings and forging stock	Wire and drawing stock			Drawn products	Extruded products	Foil	Finstock	Sheet, strip and plate	Can stock and closures	Slugs	Electro-welded tube	Alloys for foodstuff application
Numerical	Chemical symbols		Electrical	Welding	Mechanical									
EN AW-1199	EN AW-AI 99,99	-	-	-	-	-	B	-	B	-	-	-	Y	
EN AW-1098	EN AW-AI 99,98	-	B	A	-	-	B	-	B	-	A	-	Y	
EN AW-1198	EN AW-AI 99,98(A)	-	-	-	-	-	B	-	B	-	-	-	Y	
EN AW-1090	EN AW-AI 99,90	-	-	B	-	-	-	-	-	-	-	-	Y	
EN AW-1085	EN AW-AI 99,85	-	-	-	-	-	B	-	B	-	-	-	Y	
EN AW-1080A	EN AW-AI 99,8(A)	-	A	A	B	B	A	-	A	-	A	-	Y	
EN AW-1070A	EN AW-AI 99,7	-	-	A	B	A	A	-	A	-	A	-	Y	
EN AW-1370	EN AW-EAl 99,7	-	A	-	-	-	-	-	-	-	-	-	Y	
EN AW-1060	EN AW-AI 99,6	-	-	-	B	B	B	-	B	-	-	-	Y	
EN AW-1050A	EN AW-AI 99,5	B	-	A	A	A	A	A	A	B	A	-	Y	
EN AW-1350	EN AW-EAl 99,5	-	A	-	B	A	A	-	-	-	-	-	Y	
EN AW-1350A	EN AW-EAl 99,5(A)	-	-	-	-	-	-	-	B	-	-	-	Y	
EN AW-1450	EN AW-AI 99,5 Ti	-	-	-	B	-	-	-	-	-	-	-	Y	
EN AW-1235	EN AW-AI 99,35	-	-	-	-	-	B	-	-	-	-	-	Y	
EN AW-1200	EN AW-AI 99,0	-	-	B	A	A	A	A	A	-	A	-	Y	
EN AW-1200A	EN AW-AI 99,0(A)	-	-	-	-	-	-	-	B	-	-	-	Y	
EN AW-1100	EN AW-AI 99,0Cu	-	-	-	B	B	B	A	B	-	-	-	Y	

Table 2 — Applications and forms of products — 2000 series

Alloy designation		Forgings and forging stock	Wire and drawing stock			Drawn products	Extruded products	Foil	Finstock	Sheet, strip and plate	Can stock and closures	Slugs	Electro-welded tube	Alloys for foodstuff application
Numerical	Chemical symbols		Electrical	Welding	Mechanical									
EN AW-2001	EN AW-Al Cu5,5MgMn	-	-	-	B	B	-	-	-	-	-	-	N	
EN AW-2007	EN AW-Al Cu4PbMgMn	-	-	-	A	A	-	-	-	-	-	-	N	
EN AW-2011	EN AW-Al Cu6BiPb	B	-	A	A	A	-	-	-	-	A	-	N	
EN AW-2011A	EN AW-Al Cu6BiPb(A)	-	-	-	A	A	-	-	-	-	-	-	N	
EN AW-2014	EN AW-Al Cu4SiMg	A	-	-	A	A	-	-	A	-	-	-	N	
EN AW-2014A	EN AW-Al Cu4SiMg(A)	B	-	A	A	A	-	-	A	-	-	-	N	
EN AW-2214	EN AW-Al Cu4SiMg(B)	B	-	-	B	B	-	-	B	-	-	-	N	
EN AW-2017A	EN AW-Al Cu4MgSi(A)	B	-	A	A	A	-	-	A	-	-	-	N	
EN AW-2117	EN AW-Al Cu2,5Mg	-	-	A	A	A	-	-	B	-	-	-	N	
EN AW-2618A	EN AW-Al Cu2Mg1,5Ni	B	-	-	B	B	-	-	B	-	-	-	N	
EN AW-2219	EN AW-Al Cu6Mn	B	-	-	-	-	-	-	B	-	-	-	N	
EN AW-2319	EN AW-Al Cu6Mn(A)	-	-	B	-	-	-	-	-	-	-	-	N	
EN AW-2024	EN AW-Al Cu4Mg1	A	-	A	A	A	-	-	A	-	-	-	N	
EN AW-2124	EN AW-Al Cu4Mg1(A)	-	-	-	-	-	-	-	B	-	-	-	N	
EN AW-2030	EN AW-Al Cu4PbMg	-	-	B	A	A	-	-	-	-	-	-	N	
EN AW-2031	EN AW-Al Cu2,5NiMg	B	-	-	-	-	-	-	-	-	-	-	N	
EN AW-2091	EN AW-Al Cu2Li2Mg1,5	-	-	-	B	B	-	-	B	-	-	-	N	

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Table 3 — Applications and forms of products — 3000 series

Alloy designation		Forgings and forging stock	Wire and drawing stock			Drawn products	Extruded products	Foil	Finstock	Sheet strip and plate	Can stock and closures	Slugs	Electro-welded tube	Alloys for foodstuff application
Numerical	Chemical symbols		Electrical	Welding	Mechanical									
EN AW-3002	EN AW-Al Mn0,2Mg0,1	-	-	-	-	-	-	-	B	-	-	-	Y	
EN AW-3102	EN AW-Al Mn0,2	-	-	-	B	B	-	-	-	-	A	-	N	
EN AW-3003	EN AW-Al Mn1Cu	-	-	A	A	A	A	A	A	A	-	B	Y	
EN AW-3103	EN AW-Al Mn1	-	-	A	A	A	A	A	A	B	A	A	Y	
EN AW-3103A	EN AW-Al Mn1(A)	-	-	-	-	-	-	-	B	-	-	-	Y	
EN AW-3004	EN AW-Al Mn1Mg1	-	-	-	-	-	-	B	A	A	-	A	Y	
EN AW-3104	EN AW-Al Mn1Mg1Cu	-	-	-	-	-	-	-	B	A	-	-	Y	
EN AW-3005	EN AW-Al Mn1Mg0,5	-	-	-	-	-	A	-	A	A	-	A	Y	
EN AW-3005A	EN AW-Al Mn1Mg0,5(A)	-	-	-	-	-	-	-	B	B	-	-	Y	
EN AW-3105	EN AW-Al Mn0,5Mg0,5	-	-	-	-	-	B	-	A	-	-	B	N	
EN AW-3105A	EN AW-Al Mn0,5Mg0,5(A)	-	-	-	-	-	-	-	B	A	-	-	Y	
EN AW-3105B	EN AW-Al Mn0,6Mg0,5	-	-	-	-	-	-	-	B	-	-	-	N	
EN AW-3207	EN AW-Al Mn0,6	-	-	-	-	-	-	-	B	A	A	-	Y	
EN AW-3207A	EN AW-Al Mn0,6(A)	-	-	-	-	-	-	-	B	B	-	-	Y	
EN AW-3017	EN AW-Al Mn1Cu0,3	-	-	-	-	-	-	-	B	B	-	-	Y	

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