



SLOVENSKI STANDARD

SIST EN 573-4:1998

01-april-1998

Aluminij in aluminijeve zlitine - Kemična sestava in oblika gnetenih izdelkov - 4. del: Oblike izdelkov

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: Forme des produits

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ICS:

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

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EUROPEAN STANDARD

EN 573-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1994

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Descriptors: Aluminium, aluminium alloys, rolled products, aluminium products, chemical composition, shape, designation, tables (data)

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: Forme des produits

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

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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.

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CEN

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been drawn up by CEN/TC 132 "Aluminium and aluminium alloys", whose Secretariat is held by the Association Française de Normalisation (AFNOR).

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 four 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.

STANDARD PREVIEW
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 February 1995, and conflicting national standards shall be withdrawn at the latest by February 1995.

SIST EN 573-4:1998
In accordance with the CEN/CENELEC Internal Regulations, following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This part of EN 573 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 registered alloys may be the subject of patent or patent applications, and their listing herein is not to be construed in any way as the granting of a license under such patent right.

The four-figure numerical and the alternative chemical symbol based alloy designation systems are described 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.

- | | |
|----------|---|
| 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 602 | Aluminium and aluminium alloys - Wrought products - Chemical composition of the semi-products used for the fabrication of materials and articles intended to be in contact with food. |

3 Classification

For the purpose of this standard, aluminium and aluminium alloys are classified into two classes, A and B, as follows :

- Class A : Aluminium and aluminium alloys produced in large volume for the relevant field of application, and for which the mechanical properties are specified in the corresponding European Standard.

NOTE : Rolling ingots and extrusion ingots are classified according to the relevant wrought products.

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

Tolerances on dimensions and form, as specified in the relevant European Standard, apply to both Class A and Class B aluminium and aluminium alloys.

NOTE : Aluminium and aluminium alloys for Aerospace applications, which are fully standardized by AECMA but stand outside the field of general engineering, are in Class B. Their mechanical properties and tolerances on shape and dimensions are specified in the relevant European Aerospace Standard.

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 an A or a B alloy.

The last column indicates whether the alloy is in conformance (Y or N) with EN 602 which specifies criteria which the chemical composition of wrought aluminium and aluminium alloys used for the production of materials and articles intended to be in contact with food shall comply with.

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Table 1 : Applications and forms of products - 1000 series

Alloy designation		Chemical symbols	Rolling ingots	Extrusion ingots	Forgings and forging stock	Wire and drawing stock			Extruded and drawn products	Foil	Finstock	Sheet, strip and plate	Can stock and closures	Slugs	Electro-welded tube	Alloys available for foodstuff application
Numerical						Electrical	Welding	Mechanical								
EN AW-1199	EN AW-Al 99,99		B	-	-	-	-	-	B	-	-	-	-	-	-	Y
EN AW-1098	EN AW-Al 99,98		B	-	-	B	-	A	-	-	B	-	-	A	-	Y
EN AW-1198	EN AW-Al 99,98(A)		B	-	-	-	-	-	B	-	B	-	-	-	-	Y
EN AW-1090	EN AW-Al 99,90		-	-	-	-	-	B	-	-	-	-	-	-	-	Y
EN AW-1085	EN AW-Al 99,85		B	-	-	-	-	-	-	-	-	-	-	-	-	Y
EN AW-1080A	EN AW-Al 99,8(A)		A	B	-	-	A	A	-	-	A	-	-	A	-	Y
EN AW-1070A	EN AW-Al 99,7		A	A	-	-	A	A	-	-	A	-	-	A	-	Y
EN AW-1370	EN AW-EAl 99,7		-	-	-	-	-	-	-	-	-	-	-	-	-	Y
EN AW-1060	EN AW-Al 99,6		B	B	-	-	-	B	B	-	-	-	-	-	-	Y
EN AW-1050A	EN AW-Al 99,5		A	A	B	-	A	A	A	A	A	B	-	A	-	Y
EN AW-1350	EN AW-EAl 99,5		-	A	-	-	A	-	-	-	-	-	-	-	-	Y
EN AW-1350A	EN AW-EAl 99,5(A)		B	-	-	-	-	-	-	-	B	-	-	-	-	Y
EN AW-1450	EN AW-Al 99,5T1		-	-	-	-	-	-	-	-	-	-	-	-	-	Y
EN AW-1235	EN AW-Al 99,35		B	-	-	-	-	-	B	-	-	-	-	-	-	Y
EN AW-1200	EN AW-Al 99,0		A	A	-	-	-	B	A	A	A	-	-	A	-	Y
EN AW-1200A	EN AW-Al 99,0(A)		B	-	-	-	-	-	-	-	B	-	-	-	-	Y
EN AW-1100	EN AW-Al 99,0Cu		A	B	-	-	-	-	B	A	B	-	-	-	-	Y

Table 2 : Applications and forms of products - 2000 series

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

Table 3 : Applications and forms of products - 3000 series

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

Table 4 : Applications and forms of products - 4000 series

Alloy designation		Rolling ingots	Extrusion ingots	Forgings and forging stock	Wire and drawing stock			Extruded and drawn products	Foil	Finstock	Sheet, strip and plate	Can stock and closures	Slugs	Electro-welded tube	Alloys available for foodstuff application
Numerical	Chemical symbols				Electrical	Welding	Mechanical								
EN AW-4004	EN AW-Al Si10Mg1,5	B	-	-	-	-	-	-	-	-	-	-	-	Y	
EN AW-4104	EN AW-Al Si10MgBi	B	-	-	-	-	-	-	-	B	-	-	-	N	
EN AW-4006	EN AW-Al Si1Fe	A	-	-	-	-	-	-	-	B	-	-	-	Y	
EN AW-4007	EN AW-Al Si1,5Mn	A	-	-	-	-	-	-	-	A	-	-	-	Y	
EN AW-4014	EN AW-Al Si2	B	-	-	-	-	-	-	-	A	-	-	-	Y	
EN AW-4015	EN AW-Al Si2Mn	B	-	-	-	-	-	-	-	B	-	-	-	Y	
EN AW-4032	EN AW-Al Si12,5MgCuNi	-	B	B	-	-	B	-	-	-	-	-	-	N	
EN AW-4043A	EN AW-Al Si5(A)	-	-	-	-	-	-	-	-	-	-	-	-	Y	
EN AW-4343	EN AW-Al Si7,5	B	-	-	-	-	-	-	-	B	-	-	-	Y	
EN AW-4045	EN AW-Al Si10	B	-	-	-	-	-	-	-	B	-	-	-	Y	
EN AW-4046	EN AW-Al Si10Mg	-	-	-	-	-	-	-	-	-	-	-	-	Y	
EN AW-4047A	EN AW-Al Si12(A)	B	-	-	-	-	-	-	-	B	-	-	-	Y	