



# SLOVENSKI STANDARD

## SIST EN 573-5:2007

01-december-2007

---

### Aluminij in aluminijeve zlitine - Kemična sestava in oblika gnetenih izdelkov – 5. del: Kodiranje standardiziranih gnetenih izdelkov

Aluminium and aluminium alloys - Chemical composition and form of wrought products - Part 5: Codification of standardized wrought products

Aluminium und Aluminiumlegierungen - Chemische Zusammensetzung und Form von Halbzeug - Teil 5: Bezeichnung von genormten Knetzeugnissen

Aluminium et alliages d'aluminium - Composition chimique et forme des produits corroyés - Partie 5: Codification des produits corroyés normalisés

<https://standards.iteh.ai/catalog/standards/sist/7e738dd0-f201-4c4c-826b-022e49de0a65/sist-en-573-5-2007>

Ta slovenski standard je istoveten z: **EN 573-5:2007**

---

#### **ICS:**

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

**SIST EN 573-5:2007**

**en,fr,de**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 573-5:2007](#)

<https://standards.iteh.ai/catalog/standards/sist/7e738dd0-f201-4c4c-826b-022e49de0a65/sist-en-573-5-2007>

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 573-5**

September 2007

ICS 77.040.30; 77.120.10

English Version

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

Aluminium et alliages d'aluminium - Composition chimique et forme des produits corroyés - Partie 5: Codification des produits corroyés normalisés

Aluminium und Aluminiumlegierungen - Chemische Zusammensetzung und Form von Halbzeug - Teil 5: Bezeichnung von genormten Kneterteugnissen

This European Standard was approved by CEN on 13 August 2007.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech 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 United Kingdom.

**ITeH STANDARD PREVIEW**  
**(standards.iteh.ai)**  
<https://standards.iteh.ai/catalog/standards/sis/7c758dd0-f201-4c4c-826b-022e49de0a65/sist-en-573-5-2007>



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

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

## Contents

page

Foreword.....	3
Introduction.....	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions.....	5
4 Codification system.....	5
Figure 1 — Structure of codification system.....	5
Table 1 — Codification for dimension and form of extruded and drawn products.....	7
Table 2 — Codification for dimension and form of rolled products.....	7
Table 3 — Other examples for wrought forging stock.....	8
Table 4 — Other examples for wire and drawing stock.....	8
Table 5 — Other examples for extruded and drawn products.....	10
Table 6 — Other examples for rolled products.....	11
Bibliography.....	12

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 573-5:2007](https://standards.iteh.ai/catalog/standards/sist/7e738dd0-f201-4c4c-826b-022e49de0a65/sist-en-573-5-2007)

<https://standards.iteh.ai/catalog/standards/sist/7e738dd0-f201-4c4c-826b-022e49de0a65/sist-en-573-5-2007>

## Foreword

This document (EN 573-5:2007) 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 March 2008, and conflicting national standards shall be withdrawn at the latest by March 2008.

Within its programme of work, Technical Committee CEN/TC 132 entrusted CEN/TC 132/WG 7 "*Sheet, strip and plate*" to prepare the following standard:

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

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 4: Forms of products*
- *Part 5: Codification of standardized wrought products*

iTech STANDARD PREVIEW  
(standards.iteh.ai)

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN 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.

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, Cyprus, Czech 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 United Kingdom.

**EN 573-5:2007 (E)****Introduction**

The significance of a standard codification lies in the rational, unambiguous description of products, above all in the field of design, scheduling of operations, material supplies and in the field of offering and ordering.

The exchange of information between companies and plants made possible by product codification becomes more and more important for communication.

The system proposed in the present document provides a standardized pattern from which a rapid and unequivocal description of a product is possible, instead of a lengthy verbal description. It can be used advantageously in cases where the reference to semi products should be short and consistent, such as drawings or part lists.

It is not intended to replace the technical conditions of inspection and delivery as laid down in the specific product standards.

**iTeh STANDARD PREVIEW  
(standards.iteh.ai)**

[SIST EN 573-5:2007](https://standards.iteh.ai/catalog/standards/sist/7e738dd0-f201-4c4c-826b-022e49de0a65/sist-en-573-5-2007)

<https://standards.iteh.ai/catalog/standards/sist/7e738dd0-f201-4c4c-826b-022e49de0a65/sist-en-573-5-2007>

## 1 Scope

This document specifies the codification of some standardized semifinished wrought products for use in ordering information.

NOTE Codification is usually required for technical drawings.

It does not apply to castings, cast forging stock, rolling ingots, extrusion billets and ingots for remelting.

## 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 515, *Aluminium and aluminium alloys — Wrought products — Temper designations*

EN 570, *Aluminium and aluminium alloys — Impact extrusion slugs obtained from wrought products — Specification*

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

EN 1592-4, *Aluminium and aluminium alloys - HF seam welded tubes - Part 4: Tolerances on dimensions and form for square, rectangular and shaped tubes*

EN 12258-1:1998, *Aluminium and aluminium alloys — Terms and definitions — Part 1: General terms*  
[SIST EN 573-5:2007](https://standards.iteh.ai/catalog/standards/sist/7e738dd0-f201-4c4c-826b-022e49de0a65/sist-en-573-5-2007)

<https://standards.iteh.ai/catalog/standards/sist/7e738dd0-f201-4c4c-826b-022e49de0a65/sist-en-573-5-2007>

## 3 Terms and definitions

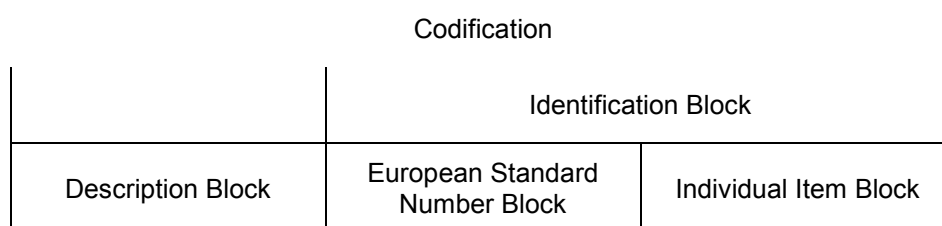
For the purposes of this document the terms and definitions given in EN 12258-1:1998 apply.

## 4 Codification system

### 4.1 General

This system contains in abbreviated form important technical data required for a product order or tender. In the product standards, where technical conditions for inspection and delivery are specified, there are included additional specifications needed for an order or tender. The requirements of these standards shall not be affected by this codification standard.

Each codification consists of a "Description Block" and an "Identification Block". The system is illustrated in Figure 1.



**Figure 1 — Structure of codification system**

**EN 573-5:2007 (E)****4.2 Description Block**

Codification according to this document shall be restricted to the products specified in EN 573-3 and the relevant product standards. The definitions of these products are specified in EN 12258-1.

The description shall be as short as possible and should be taken preferably from the title of the standard or the descriptors, the one which best characterizes the standardized product. The description shall be translated in the national versions of the European Standard since the product can be identified by the European Standard number block too.

**4.3 Identification Block****4.3.1 Structure of Identification Block**

The Identification Block consists of two consecutive blocks of characters, the European Standard Number Block and the Individual Item Block. In order to mark the division between the two blocks, a hyphen (–) shall be the first character of the Individual Item Block.

**4.3.2 European Standard Number Block**

If the European Standard of a product consists of several parts issued, the number of the relevant part where tolerances on dimensions and form are specified shall be taken.

All the requirements concerning technical conditions of inspection and delivery, mechanical properties and additional properties laid down in the relevant parts of the standard shall be applicable.

**4.3.3 Individual Item Block**

In order to allow an unambiguous coding of the standardized product the characteristics should be given in the following sequence where the first, second and third characteristic should be separated by a hyphen (–):

- material designation;
- temper designation;
- parameters, e.g. dimensions (thickness × width × length).

Numerical values for parameters shall be used absolutely. In cases where no dimensions can be coded, e.g. drawing number for forgings or extruded profiles, letters in front of figures are allowed.

Reference to drawings may be coded with letters and figures, where letters should be explained by a short text outside of the codification. No symbols shall be used which could be mistaken for codification symbols.

Entries in plain language as characteristics, e.g. for shape and type or design data, shall be coded to prevent their translation into other languages. Some codifications are given in the examples and they should be standardized in the product standards when these are subject of revision.

**4.3.4 Terms, designations and cods to be used in the Identification Block**

Material designation specified in EN 573-3 shall be used whenever possible.

Temper designation specified in EN 515 shall be used whenever possible.

For dimensions and form, the following designations, composed of a code and two or more numbers A, B, C ....., according to Table 1, shall be used. For sheet and plate the code "RCT" shall not be used. All dimensions shall be specified in millimetres, with the exception of foil and finstock thicknesses which are specified in micrometers.

For products of irregular cross-sections which are not covered by Table 1, the reference code of the drawing shall be written instead of the designation.



For coiled products and products required in random lengths only the cross-sectional dimensions shall be codified. Further specifications, e.g. related to inside diameter of the coil, shall be given according to the relative standards.

For circles only the thickness and the circle diameter shall be indicated as part of the codification. For slugs the codification system shall apply as specified in EN 570.

Further designation characteristics shall be used only if agreed upon between supplier and purchaser, for round tubes and for sheet, strip and plate. For any other form of products, reference to drawings shall be used.

**Table 1 — Codification for dimension and form of extruded and drawn products**

Product description	Explanation	Dimension symbols	Explanation
HEX-bar	Bar, hexagonal cross-section	$A \times C$	Width across flats $\times$ length <sup>a</sup>
RCT-bar	Bar, rectangular cross-section	$A \times B \times C$	Thickness $\times$ width $\times$ length <sup>a</sup>
SQU-bar	Bar, square cross-section	$A \times C$	Width across flats $\times$ length <sup>a</sup>
RND-bar	Bar, round cross-section	$A \times C$	Diameter $\times$ length <sup>a</sup>
RND-tube	Tube, round cross-section	$OD \times B \times C$	Outside diameter $\times$ wall thickness $\times$ length <sup>a</sup>
RND-tube	Tube, round cross-section	$ID \times B \times C$	Inside diameter $\times$ wall thickness $\times$ length <sup>a</sup>
RND-tube	Tube, round cross-section	$OD \times ID \times C$	Outside diameter $\times$ inside diameter $\times$ length <sup>a</sup>
		RL (instead of C)	Length as fabricated (random length)
NOTE For products of irregular cross-sections which are not covered by this table, the reference code of the drawing should be written instead of the designation, followed by a figure describing the fixed length in millimetres or the designation "RL" if random length is required.			
<sup>a</sup> If a length is specified, this shall be considered as fixed length.			

**Table 2 — Codification for dimension and form of rolled products**

Product description	Dimension symbols	Explanation
Strip, foil	$A \times B$	Thickness $\times$ width
Sheet, plate	$A \times B \times C$	Thickness $\times$ width $\times$ length
Circle, hot-rolled	$A \times B$	Thickness $\times$ circle diameter
Circle, cold-rolled	$A \times B$	Thickness $\times$ circle diameter

## 4.4 Examples

### 4.4.1 General

The codification will be explained in the examples either by a short text and/or schematically.

When quoting the characteristic features the same order shall be used for those appearing in the explanation as in the codification. Supplementary coded expressions shall be added in parentheses in the explanation after the corresponding data.

The following examples are listed in sections according to the product groups and one example is listed only. It is entrusted to the working groups of CEN/TC 132 to amend their product standards by the codification system when these standards are to be revised.