

## საქართველოს სტანდარტი

სსკ: 77.150.30

სპილენძი და სპილენძის შენადნობები - ფურცელი და ზოლები სამშენებლო  
მიზნებისთვის

სსტ ენ 1172:2011/2023

საინფორმაციო მონაცემები

1 მიღებულია და დაშვებულია სამოქმედოდ: სსიპ-საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს გენერალური დირექტორის 01/05/2023 წლის № 47 განკარგულებით

2 მიღებულია „თავფურცლის“ თარგმნის მეთოდით: სტანდარტიზაციის ევროპული კომიტეტის (ენ) სტანდარტი ენ 1172:2011 „ სპილენძი და სპილენძის შენადნობები - ფურცელი და ზოლები სამშენებლო მიზნებისთვის”

3 პირველად

4 რეგისტრირებულია: სსიპ-საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 01/05/2023 წლის №268-1.3-028910

წინამდებარე სტანდარტის ნებისმიერი ფორმით გავრცელება სააგენტოს ნებართვის გარეშე აკრძალულია

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.

English Version

## Copper and copper alloys - Sheet and strip for building purposes

Cuivre et alliages de cuivre - Tôles et bandes pour le bâtiment

Kupfer und Kupferlegierungen - Bleche und Bänder für das Bauwesen

This European Standard was approved by CEN on 15 October 2011.

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-CENELEC 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-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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

**Contents**

Page

Foreword.....3

1 Scope .....4

2 Normative references .....4

3 Terms and definitions .....4

4 Designations .....5

4.1 Material .....5

4.1.1 General.....5

4.1.2 Symbol .....5

4.1.3 Number .....5

4.2 Material condition .....5

4.3 Product .....5

5 Ordering information .....6

6 Requirements .....7

6.1 Composition .....7

6.2 Mechanical properties .....7

6.3 Surface quality .....7

6.4 Dimensions and tolerances .....7

6.4.1 Thickness, width, length and coil inside diameter .....7

6.4.2 Straightness of longitudinal edges (edgewise curvature) .....7

6.4.3 Flatness .....8

6.4.4 Squareness of sheet.....8

6.5 Mass per unit length .....8

7 Sampling .....8

7.1 Analysis .....8

7.2 Mechanical tests .....8

8 Test methods.....9

8.1 Analysis .....9

8.2 Tensile test .....9

8.3 Hardness test .....9

8.4 Retests .....9

8.5 Rounding of results .....9

9 Marking, packaging, labelling.....9

9.1 Marking of sheet and strip .....9

9.2 Packaging .....10

9.3 Labelling .....10

Bibliography .....14

**Tables**

Table 1 — Composition .....11

Table 2 — Mechanical properties .....12

Table 3 — Dimensions, tolerances and mass per unit length .....13

Table 4 — Flatness of sheet .....13

Table 5 — Squareness of sheet.....13

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.

## Foreword

This document (EN 1172:2011) has been prepared by Technical Committee CEN/TC 133 "Copper and copper alloys", the secretariat of which is held by DIN.

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 May 2012, and conflicting national standards shall be withdrawn at the latest by May 2012.

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 1172:1996.

Within its programme of work, Technical Committee CEN/TC 133 requested CEN/TC 133/WG 2 "Rolled flat products" to revise the following standard:

— EN 1172:1996, *Copper and copper alloys — Sheet and strip for building purposes*.

This is one of a series of European Standards for copper and copper alloy rolled flat products. Other products are specified as follows:

— EN 1652, *Copper and copper alloys — Plate, sheet, strip and circles for general purposes*

— EN 1653, *Copper and copper alloys — Plate, sheet and circles for boilers, pressure vessels and hot water storage units*

— EN 1654, *Copper and copper alloys — Strip for springs and connectors*

— EN 1758, *Copper and copper alloys — Strip for lead frames*

— EN 13599, *Copper and copper alloys — Copper plate, sheet and strip for electrical purposes*

In comparison with the first edition of EN 1172:1996, the following significant technical changes were made:

a) Addition of four new materials: CuSn0,15 (CW117C), CuAl5Zn5Sn1 (CW309G), CuSn4 (CW450K) and CuZn15 (CW502L) into Tables 1 and 2;

b) Addition of thickness 0,4 mm.

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, Croatia, 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 the United Kingdom.