SLOVENSKI STANDARD
SIST EN 1412:1998

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Baker in bakrove zlitine - Evropski številčni sistem označevanja

Copper and copper alloys - European numbering system

Kupfer und Kupferlegierungen - Europäisches Werkstoffnummersystem

Cuivre et alliages de cuivre - Systeme européen de désignation numérique

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77.120.30 Baker in bakrove zlitine Copper and copper alloys

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English version

Copper and copper alloys - European numbering system

Cuivre et alliages de cuivre - Système européen de désignation numérique

Kupfer und Kupferlegierungen - Europäisches Werkstoffnummernsystem

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CEN

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

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FOREWORD

This European Standard has been drawn up by CEN/TC 133 "Copper and copper alloys" of which the secretariat 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of an identical text or by endorsement, at the latest by May 1996, and conflicting national standards shall be withdrawn at the latest by May 1996.

According to the CEN/CENELEC Internal Regulations, the 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 the United Kingdom.

Introduction

The numbering system described in this European Standard is based on annex A to ISO/TR 7003 in which a unique number is allocated to a copper material (copper or copper alloy) in order to categorize it. This numbering system is an alternative to the material symbol designation system given in ISO 1190-1.

1 Scope

This European Standard establishes a numbering system for designating copper and copper alloys manufactured and/or used in Europe and the responsibility for the allocation, registration and administration of numbers for individual copper materials.

The system is applicable to:

a) copper materials standardized in European Standards (see 3.2), and

b) copper materials not standardized in European Standards (see 3.3).

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.

ISO/TR 7003
Unified format for the designation of metals

NOTE: Informative references to documents used in the preparation of this standard, and cited at the appropriate places in the text, are listed in a bibliography, see annex A.

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1 copper material

General term for copper and copper alloys.

3.2 standardized copper material

Copper material specified in a European Standard.

3.3 non-standardized copper material

Copper material not specified in a European Standard but manufactured and/or used in Europe.

4 Details of the system

4.1 General

The number shall be composed of alphabetic (upper case Latin letters) and numeric (Arabic) characters.

The system shall provide only one number for each material. A number assigned to an individual material shall not be assigned to another material even if the first mentioned material has been withdrawn.

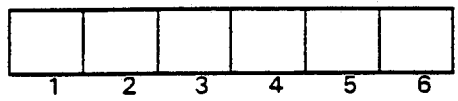
4.2 Structure of numbers

4.2.1 Complete number

The number shall consist of six characters.

4.2.2 Positions of characters

The positions of characters are as follows:



4.2.2.1 Position 1

In accordance with ISO/TR 7003, the character for the first position shall be the letter "C" to designate copper material.

4.2.2.2 Position 2

The character for the second position shall be one of the following letters, whose significance is given as follows:

B materials in ingot form for remelting to produce cast products;

C materials in the form of cast products;

F filler materials for brazing and welding;

M master alloys;

R refined unwrought copper;

S materials in the form of scrap;

W materials in the form of wrought products;

X non-standardized materials.

4.2.2.3 Position 3 to 5

The characters for the third, fourth and fifth positions shall form a number in the range 000 to 999, see table 1. There is no particular significance attributed to any of these characters.

4.2.2.4 Position 6

The character for the 6th position shall be a letter designating one of the material groups given in table 1.

4.2.2.5 Examples

CW024A;

CB752S;

CC383H.

5 Allocation, registration and administration of material numbers

NOTE: CEN/TC 133 is responsible for the allocation, registration and administration of material numbers.

Table 1: Significance of positions 3 to 6

Material group	Position 3, 4 and 5[1] (a number in the range)	Position 6 (letter designating material group)
Copper	000 to 999	A or B
Copper alloys, low alloyed (less than 5 % alloying elements)	000 to 999	C or D
Miscellaneous copper alloys (5 % or more alloying elements)	000 to 999	E or F
Copper-aluminium alloys	000 to 999	G
Copper-nickel alloys	000 to 999	H
Copper-nickel-zinc alloys	000 to 999	J
Copper-tin alloys	000 to 999	K
Copper-zinc alloys, binary	000 to 999	L or M
Copper-zinc-lead alloys	000 to 999	N or P
Copper-zinc alloys, complex	000 to 999	R or S

[1]) Standardized copper material in the range 000 to 799.
Non-standardized copper material in the range 800 to 999.