

SLOVENSKI STANDARD kSIST FprEN 12166:2015

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Baker in bakrove zlitine - Žica za splošno uporabo

Copper and copper alloys - Wire for general purposes

Kupfer und Kupferlegierungen - Drähte zur allgemeinen Verwendung

Ta slovenski standard je istoveten z: FprEN 12166

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Copper and copper alloys - Wire for general purposes

Kupfer und Kupferlegierungen - Drähte zur allgemeinen Verwendung

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 133.

If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (FprEN 12166:2015) has been prepared by Technical Committee CEN/TC 133 "Copper and copper alloys", the secretariat of which is held by DIN.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 12166:2011.

Within its programme of work, Technical Committee CEN/TC 133 requested CEN/TC 133/WG 4 "Extruded and drawn products, forgings and scrap" to revise the following standard:

— EN 12166:2011, Copper and copper alloys — Wire for general purposes.

This document is one of a series of European Standards for the copper and copper alloy products rod, wire, profile and forgings. Other products are specified as follows:

- EN 12163, Copper and copper alloys Rod for general purposes;
- EN 12164, Copper and copper alloys Rod for free machining purposes;
- EN 12165, Copper and copper alloys Wrought and unwrought forging stock;
- EN 12167, Copper and copper alloys Profiles and bars for general purposes;
- EN 12168, Copper and copper alloys Hollow rod for free machining purposes;
- EN 13601, Copper and copper alloys Copper rod, bar and wire for general electrical purposes;
- EN 13602, Copper and copper alloys Drawn, round copper wire for the manufacture of electrical conductors;
- EN 13605, Copper and copper alloys Copper profiles and profiled wire for electrical purposes.

In comparison with EN 12166:2011, the following significant technical changes were made:

- a) introduction of an optional procedure how to refer to restrictions to the chemical composition imposed by the 4 MS Common Composition List for materials used for products accepted for contact with drinking water;
- b) provisions for surface quality added.

Introduction

The European Committee for Standardization (CEN) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning the alloy CuZn21Si3P (CW724R) given in 6.1.

CEN takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has ensured the CEN that he is willing to negotiate licenses either free of charge or under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with CEN. Information may be obtained from:

Wieland Werke AG Graf Arco Straße 36 D-89079 Ulm GERMANY

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. CEN shall not be held responsible for identifying any or all such patent rights.

CEN and CENELEC maintain online lists of patents relevant to their standards. Users are encouraged to consult the lists for the most up to date information concerning patents (ftp://ftp.cencenelec.eu/EN/IPR/Patents/IPRdeclaration.pdf).

Due to developing legislation, the composition of a material may be restricted to the composition specified in this European Standard with respect to individual uses (e.g. for the use in contact with drinking water in some Member States of the European Union). These individual restrictions are not part of this European Standard. Nevertheless, for materials for which traditional and major uses are affected, these restrictions are indicated. The absence of an indication, however, does not imply that the material can be used in any application without any legal restriction.

1 Scope

This European Standard specifies the composition, property requirements and dimensional tolerances for copper alloy wire, finally produced by drawing, rolling or extruding, intended for general purposes, spring and fastener manufacturing applications.

The sampling procedures and the methods of test for verification of conformity to the requirements of this European Standard are also specified.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1173, Copper and copper alloys — Material condition designation

EN 1412, Copper and copper alloys — European numbering system

EN 1655, Copper and copper alloys — Declarations of conformity

EN 10204, Metallic products — Types of inspection documents

EN ISO 2624, Copper and copper alloys — Estimation of average grain size (ISO 2624)

EN ISO 6507-1, Metallic materials — Vickers hardness test — Part 1: Test method (ISO 6507-1)

EN ISO 6892-1, Metallic materials — Tensile testing — Part 1: Method of test at room temperature (ISO 6892-1)

ISO 1190-1, Copper and copper alloys — Code of designation — Part 1: Designation of materials

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

wire

wound product of uniform cross-section along its whole length

Note 1 to entry: Rectangles may have round or sharp corners.

3.2

deviation from circular form

difference between the maximum and the minimum diameters measured at any one cross-section of a round product

[SOURCE: FprEN 12163:2015, 3.2]