საქართველოს სტანდარტი

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საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტო თბილისი სსტ ენ 13348 : 2016/2016

საინფორმაციო მონაცემები

- 1 **შემუშავებულია** საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს სტანდარტების დეპარტამენტის მიერ
- **3 მიღებულია გარეკანის თარგმნის მეთოდით** სტანდარტიზაციის ევროპული კომიტეტის სტანდარტი ენ 13348:2016 " სპილენმი და სპილენმის შენადნობები. უნაკერო, სპილენმის მრგვალი სპილენმის მილები სამედიცინო აირების ან ვაკუუმისთვის"

4 პირველად

5 რეგისტრირებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2016 წლის 12 სექტემბერი N268-1.3-9776

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 13348

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Supersedes EN 13348:2008

English Version

Copper and copper alloys - Seamless, round copper tubes for medical gases or vacuum

Cuivre et alliages de cuivre - Tubes ronds sans soudure en cuivre pour gaz médicaux ou le vide Kupfer und Kupferlegierungen - Nahtlose Rundrohre aus Kupfer für medizinische Gase oder Vakuum

This European Standard was approved by CEN on 28 February 2016.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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 (EN 13348:2016) 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 December 2016 and conflicting national standards shall be withdrawn at the latest by December 2016.

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 13348:2008.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of Directive 2014/68/EU, Pressure Equipment Directive (PED).

For relationship with Directive 2014/68/EU, see informative Annex ZA, which is an integral part of this document.

Within its programme of work, Technical Committee CEN/TC 133 requested CEN/TC 133/WG 3 "Copper tubes (installation and industrial)" to revise EN 13348:2008.

In comparison with EN 13348:2008, the following significant technical changes were made:

- a) The size range of the outside diameters has been increased from 133 mm to 219 mm;
- b) Nominal outside diameters have been added to Table 1;
- c) Lubricant residue values for the new outside diameters have been added in 6.5;
- d) Sub-clause 8.7 has been revised and a new normative Annex B "Freedom from defects tests" has been added.

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

- EN 1057, Copper and copper alloys Seamless, round copper tubes for water and gas in sanitary and heating applications
- EN 12449, Copper and copper alloys Seamless, round tubes for general purposes
- EN 12450, Copper and copper alloys Seamless, round copper capillary tubes
- EN 12451, Copper and copper alloys Seamless, round tubes for heat exchangers
- EN 12452, Copper and copper alloys Rolled, finned, seamless tubes for heat exchangers
- EN 12735-1, Copper and copper alloys Seamless, round tubes for air conditioning and refrigeration
 Part 1: Tubes for piping systems

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- EN 12735-2, Copper and copper alloys Seamless, round tubes for air conditioning and refrigeration
 Part 2: Tubes for equipment
- EN 13349, Copper and copper alloys Pre-insulated copper tubes with solid covering
- EN 13600, Copper and copper alloys Seamless copper tubes for electrical purposes

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

It is recommended that tubes manufactured to this European Standard are certified as conforming to the requirements of this standard based on continuing surveillance which should be coupled with an assessment of a supplier's quality management system such as EN ISO 9001.

Tubes to this European Standard are suitable for capillary soldering, brazing or assembling by mechanical compression or collared fittings.

NOTE It is advised to take appropriate precautions if applying insulating material because it could be detrimental to the copper tube.