საქართველოს სტანდარტი

წყალმილა ქვაბები და დამხმარე მოწყობილობები-ნაწილი 6: ინსპექტირება კონსტრუირების დროს; წნევის ქვეშ მომუშავე ქვაბების სადაწნეო ნაწილების დოკუმენტაცია და ნიშანდება

საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტო თბილისი

საინფორმაციო მონაცემები

- 1 **შემუშავებულია** საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს სტანდარტების დეპარტამენტის მიერ
- 2 დამტკიცებულია და შემოღებულია სამოქმედოდ საქართველოს სტანდარტების
 და მეტროლოგიის ეროვნული სააგენტოს 2013 წლის 24 ივნისის
 № 45 განკარგულებით
- **3** მიღებულია გარეკანის მეთოდით სტანდარტიზაციის საერთაშორისო ორგანიზაციის სტანდარტი სსტ ენ 12952-6:2011 ,, წყალმილა ქვაბები და დამხმარე მოწყობილობები-ნაწილი 6: ინსპექტირება კონსტრუირების დროს; წნევის ქვეშ მომუშავე ქვაბების სადაწნეო ნაწილების დოკუმენტაცია და ნიშანდება"

4 პირველად

5 რეგისტრირებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2013 წლის 24 ივნისი №268-1.3-5493

წინამდებარე სტანდარტის სრული ან ნაწილობრივი აღწარმოება, ტირაჟირება და გავრცელება საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს ნებართვის გარეშე არ დაიშვება

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 12952-6

August 2011

ICS 27.040

Supersedes EN 12952-6:2002

English Version

Water-tube boilers and auxiliary installations - Part 6: Inspection during construction; documentation and marking of pressure parts of the boiler

Chaudières à tubes d'eau et installations auxiliaires - Partie 6: Contrôles en cours de construction, documentation et marquage des parties sous pression de la chaudière Wasserrohrkessel und Anlagenkomponenten - Teil 6: Prüfung während der Fertigung, Dokumentation und Kennzeichnung für drucktragende Kesselteile

This European Standard was approved by CEN on 25 June 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

COII	Foreword	
Forew		
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4 4.1 4.2 4.3 4.4 4.5	General organisation General Conformity assessment Competency of the manufacturer Calibration of equipment Inspection activities	6 6 6
5	Non-destructive testing (NDT) of parent materials	10
6 6.1 6.2	Qualification of welding procedure specification	10
7	Welder and welding operator qualification	12
8 8.1 8.2 8.3 8.4 8.5	Production test plates for drums General Number of production test plates Tests required Acceptance criteria Non-conformance of results	13 13 13
9 9.1 9.2 9.3 9.4 9.5	Non-destructive testing of welds Type and extent of non-destructive testing Qualification of non-destructive testing (NDT) personnel The detection of surface imperfections Testing for volumetric imperfections Non-destructive testing reports	16 20 20 23
10 10.1 10.2	Final inspection Visual and dimensional examinations Hydrostatic pressure test	28
11	Documentation	29
12	Marking	30
Anne	x A (normative) Special requirements for composite tubes	31
Anne	x B (informative) Significant technical changes between this European Standard and the previous edition	34
Anne	x ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 97/23/EC	35
Biblio	graphy	36

Foreword

This document (EN 12952-6:2011) has been prepared by Technical Committee CEN/TC 269 "Shell and water-tube boilers", 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 February 2012, and conflicting national standards shall be withdrawn at the latest by February 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 12952-6:2002.

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 EU Directive(s).

For relationship with EU Directive 97/23/EC, see informative Annex ZA, which is an integral part of this document.

Annex B provides details of significant technical changes between this European Standard and the previous edition.

The European Standard series EN 12952 concerning water-tube boilers and auxiliary installations consists of the following parts:

- Part 1: General;
- Part 2: Materials for pressure parts of boilers and accessories;
- Part 3: Design and calculation for pressure parts;
- Part 4: In-service boiler life expectancy calculations;
- Part 5: Workmanship and construction of pressure parts of the boiler;
- Part 6: Inspection during construction, documentation and marking of pressure parts of the boiler;
- Part 7: Requirements for equipment for the boiler;
- Part 8: Requirements for firing systems for liquid and gaseous fuels for the boiler;
- Part 9: Requirements for firing systems for pulverized solid fuels for the boiler;
- Part 10: Requirements for safeguards against excessive pressure;
- Part 11: Requirements for limiting devices of the boiler and accessories;
- Part 12: Requirements for boiler feedwater and boiler water quality;
- Part 13: Requirements for flue gas cleaning systems;

EN 12952-6:2011 (E)

- Part 14: Requirements for flue gas DENOX-systems using liquefied pressurized ammonia and ammonia water solution;
- Part 15: Acceptance tests;
- Part 16: Requirements for grate and fluidized-bed firing systems for solid fuels for the boiler;
- CR 12952 Part 17: Guideline for the involvement of an inspection body independent of the manufacturer.

NOTE 1 A Part 18 on operating instructions is currently in preparation.

Although these parts may be obtained separately, it should be recognized that the parts are inter-dependent. As such, the design and manufacture of water-tube boilers requires the application of more than one part in order for the requirements of the European Standard to be satisfactorily fulfilled.

NOTE 2 Part 4 and Part 15 are not applicable during the design, construction and installation stages.

NOTE 3 A "Boiler Helpdesk" has been established in CEN/TC 269 which may be contacted for any questions regarding the application of European Standards series EN 12952 and EN 12953, see the following website: http://www.boiler-helpdesk.din.de

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.