

Irish Standard I.S. EN 12952-2:2011

Water-tube boilers and auxiliary installations - Part 2: Materials for pressure parts of boilers and accessories

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English Version

Water-tube boilers and auxiliary installations - Part 2: Materials for pressure parts of boilers and accessories

Chaudières à tubes d'eau et installations auxiliaires - Partie 2: Matériaux des parties sous pression des chaudières et accessoires Wasserrohrkessel und Anlagenkomponenten - Teil 2: Werkstoffe für drucktragende Kesselteile und Zubehör

This European Standard was approved by CEN on 25 June 2011.

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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.

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Foreword

This document (EN 12952-2:2011) 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of an identical text or by endorsement, at the latest by February 2012, and conflicting national standards shall be withdrawn at the latest by February 2012.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 12952-2:2001.

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 D 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;
- Part 14: Requirements for flue gas DENOX-systems using liquefied pressurized ammonia and ammonia water solution;

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- 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.

1 Scope

This European Standard specifies the requirements for the product forms for use in pressure parts of watertube boilers and for parts welded on to pressure parts:

—	plates;
	wrought seamless tubes;
_	electrically welded tubes;
_	submerged, plasma and TIG arc-welded tubes;
_	forgings;
_	castings;
_	rolled bars;

— fasteners:

seamless composite tubes.

— welding consumables;

2 Normative references

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

EN 757:1997, Welding consumables — Covered electrodes for manual metal arc welding of high strength steels — Classification

EN 760:1996, Welding consumables — Fluxes for submerged arc welding — Classification

EN 764-4:2002, Pressure equipment — Part 4: Establishment of technical delivery conditions for metallic materials

EN 764-5:2002, Pressure equipment — Part 5: Compliance and inspection documentation of materials

EN 1092-1:2007, Flanges and their joints — Circular flanges for pipes, valves, fittings and accessories, PN designated — Part 1: Steel flanges

EN 1503-1:2000, Valves — Materials for bodies, bonnets and covers — Part 1: Steels specified in European Standards

EN 1503-2:2000, Valves — Materials for bodies, bonnets and covers — Part 2: Steels other than those specified in European Standards

EN 1600:1997, Welding consumables — Covered electrodes for manual metal arc welding of stainless and heat resisting steels — Classification

EN 1759-1:2004, Flanges and their joints — Circular flanges for pipes, valves, fittings and accessories, class designated — Part 1: Steel flanges, NPS ½ to 24



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