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Pressure equipment - Part 4: Establishment of technical delivery conditions for metallic materials

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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Pressure equipment - Part 4: Establishment of technical delivery conditions for metallic materials

Equipements sous pression - Partie 4: Etablissement des conditions techniques de livraison des matériaux métalliques

Druckgeräte - Teil 4: Erstellung von technischen Lieferbedingungen für metallische Werkstoffe

This European Standard was approved by CEN on 8 November 2014.

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.

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

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Cont	ents	Page
Forewo	ord	4
1	Scope	5
2	Normative references	5
3	Terms and definitions, symbols and abbreviations	6
3.1	Terms and definitions	6
3.2	Symbols and abbreviations	
4	Types of technical delivery conditions Harmonized European Standards for material for pressure equipment	
4.1 4.2	European Approvals for Materials for pressure equipment (EAMs)	
4.3	Particular Material Appraisals for pressure equipment (PMAs)	
5	Content of technical delivery conditions for materials for pressure equipment	9
5.1	General	_
5.2 5.3	Requirements Testing and inspection	
5.4	Marking	
Annex	A (normative) Procedures for the establishment of European Approvals for pressure	
A .1	equipment Materials (EAM)	
A.2	European Approvals for Materials	13
A.3	Requirements for the establishment of an EAM	
A.4	Title scheme and structure of an EAM	
Annex B.1	B (normative) Appraisal schedule for ferritic and martensitic steels	
B.2	Test procedures	_
B.3	Required testing	17
B.4 B.5	Subsequent testing	
	Collective tests	
Annex C.1	C (normative) Appraisal schedule for austenitic and austenitic-ferritic steels	
C.2	Test procedures	
C.3	Basic testing	
C.4 C.5	Sampling Extent of testing	
	G	
Annex D.1	D (normative) Appraisal schedule for cast steels	
D.2	Test procedures	
D.3	Basic testing	
D.4 D.5	Sampling Extent of testing	
	· · · · · · · · · · · · · · · · · · ·	
Annex E.1	E (normative) Test programme for welded specimen after stress relief procedure Test programme	
E.2	Position of specimen	
Annex	F (informative) Example for Particular Material Appraisal (PMA) for steel	35
Annex	G (informative) History of EN 764-4	38

Annex ZA (informative) Relationship between this European Standard and the Essential Requirements	
of EU Directive 97/23/EC on Pressure Equipment	39
	• •
Bibliography	40

Foreword

This document (EN 764-4:2014) has been prepared by Technical Committee CEN/TC 54 "Unfired pressure vessels", the secretariat of which is held by BSI.

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 June 2015 and conflicting national standards shall be withdrawn at the latest by June 2015.

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 764-4:2002.

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.

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

Regarding the most significant technical changes that have been implemented in this new edition of EN 764-4, see Annex G.

EN 764, *Pressure equipment*, consists of the following parts:

- Part 1: Terminology Pressure, temperature, volume, nominal size;
- Part 2: Quantities, symbols and units;
- Part 3: Definition of parties involved;
- Part 4: Establishment of technical delivery conditions for metallic materials (the present document);
- Part 5: Inspection documentation of metallic materials and compliance with the material specification;
- Part 6: Structure and content of operating instructions [Technical Report CEN/TR 764-6];
- Part 7: Safety systems for unfired pressure equipment;
- Part 8: Proof test [Technical Specification prCEN/TS 764-8, currently under development].

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.

1 Scope

This European Standard specifies the requirements, under the regime of the EU Directive 97/23/EC on Pressure Equipment (PED), for the establishment of the technical delivery conditions in the form of:

- harmonized European Standards for material;
- European Approval for Materials (EAM);
- Particular Material Appraisal (PMA)

for metallic materials for pressure equipment in all product forms. Welding consumables are not covered by this standard.

This European Standard was developed predominantly on the basis of steel, nickel and nickel-based materials. However, application to other materials is not restricted but should consider specific aspects relevant to the material concerned.

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 764-1:2004, Pressure equipment - Part 1: Terminology - Pressure, temperature, volume, nominal size

EN 764-2:2012, Pressure equipment - Part 2: Quantities, symbols and units

EN 10028 (all parts), Flat products made of steels for pressure purposes

EN 10164, Steel products with improved deformation properties perpendicular to the surface of the product - Technical delivery conditions

EN 10204, Metallic products - Types of inspection documents

EN 10213, Steel castings for pressure purposes

EN 10216 (all parts), Seamless steel tubes for pressure purposes - Technical delivery conditions

EN 10217 (all parts), Welded steel tubes for pressure purposes - Technical delivery conditions

EN 10222 (all parts), Steel forgings for pressure purposes

EN 10272, Stainless steel bars for pressure purposes

EN 10273, Hot rolled weldable steel bars for pressure purposes with specified elevated temperature properties

EN 10314, Method for the derivation of minimum values of proof strength of steel at elevated temperatures

EN ISO 148-1, Metallic materials - Charpy pendulum impact test - Part 1: Test method (ISO 148-1)

EN ISO 204, Metallic materials - Uniaxial creep testing in tension - Method of test (ISO 204)

EN ISO 6892-1:2009, Metallic materials - Tensile testing - Part 1: Method of test at room temperature (ISO 6892-1)

EN 764-4:2014 (E)

EN ISO 10052, Acoustics - Field measurements of airborne and impact sound insulation and of service equipment sound - Survey method (ISO 10052)

EN ISO 15607, Specification and qualification of welding procedures for metallic materials - General rules (ISO 15607)

CR ISO 15608:2000, Welding - Guidelines for a metallic material grouping system (ISO/TR 15608:2000)

EN ISO 15614-1, Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys (ISO 15614-1)

koniec náhľadu – text ďalej pokračuje v platenej verzii STN