



**SLOVENSKI STANDARD**  
**SIST EN 10216-2:2014/oprA1:2018**  
**01-julij-2018**

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**Nevarjene jeklene cevi za tlačne posode - Tehnični dobavni pogoji - 2. del:  
Nelegirane in legirane jeklene cevi s specificiranimi lastnostmi za delo pri  
povišanih temperaturah - Dopolnilo A1**

Seamless steel tubes for pressure purposes - Technical delivery conditions - Part 2: Non-alloy and alloy steel tubes with specified elevated temperature properties

Nahtlose Stahlrohre für Druckbeanspruchungen - Technische Lieferbedingungen - Teil 2: Rohre aus unlegierten und legierten Stählen mit festgelegten Eigenschaften bei erhöhten Temperaturen

Tubes sans soudure en acier pour service sous pression - Conditions techniques de livraison - Partie 2 : Tubes en acier non allié et allié avec caractéristiques spécifiées à température élevée

**Ta slovenski standard je istoveten z: EN 10216-2:2013/prA1**

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**ICS:**

23.020.32	Tlačne posode	Pressure vessels
77.140.75	Jeklene cevi in cevni profili za posebne namene	Steel pipes and tubes for specific use

**SIST EN 10216-2:2014/oprA1:2018**      **en,fr,de**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**EN 10216-2:2013**  
**prA1**

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ICS 23.040.10; 77.140.75

English Version

## Seamless steel tubes for pressure purposes - Technical delivery conditions - Part 2: Non-alloy and alloy steel tubes with specified elevated temperature properties

Tubes sans soudure en acier pour service sous pression - Conditions techniques de livraison - Partie 2 : Tubes en acier non allié et allié avec caractéristiques spécifiées à température élevée

Nahtlose Stahlrohre für Druckbeanspruchungen - Technische Lieferbedingungen - Teil 2: Rohre aus unlegierten und legierten Stählen mit festgelegten Eigenschaften bei erhöhten Temperaturen

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee ECISS/TC 110.

This draft amendment A1, if approved, will modify the European Standard EN 10216-2:2013. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN 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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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: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN 10216-2:2013/prA1:2018) has been prepared by Technical Committee ECISS/TC 110 “Steel tubes and fittings for steel tubes”, the secretariat of which is held by UNI.

This document is currently submitted to the CEN Enquiry.

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(s), see informative Annex ZA, which is an integral part of this document.

EN 10216-2:2013/prA1:2018 (E)

## 1 Deletion of the Introduction

*Delete the Introduction in its entirety.*

## 2 Modifications to Clause 1, "Scope"

*In the NOTE, replace twice "97/23/EC" with "2014/68/EU".*

## 3 Modification to Clause 2 "Normative references"

*Delete the years of publication of standards to read as follows:*

*"EN 10168, Steel products - Inspection documents - List of information and description",*

*"EN 10204, Metallic products - Types of inspection documents",*

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

*"EN ISO 377, Steel and steel products - Location and preparation of samples and test pieces for mechanical testing (ISO 377)",*

*"EN ISO 14284, Steel and iron - Sampling and preparation of samples for the determination of chemical composition (ISO 14284)", and*

*"ISO 11484, Steel products - Employer's qualification system for non-destructive testing (NDT) personnel".*

## 4 Modification to 6.3.2 "Example 2"

*In the 1<sup>st</sup> paragraph, replace "Part of EN 10216" with "EN 10216-2".*

## 5 Modification to 7.2.2 "The tubes shall be manufactured by a seamless process"

*Replace the subclause reference "7.3.3" with "7.2.3".*

## 6 Modification to 8.2.2 "Product analysis"

*In Table 2, footnote to table g, 2<sup>nd</sup> paragraph, replace "resting" with "testing".*

## 7 Modifications to 8.3.3 "Creep rupture strength"

*In Table 4, footnote to table b, replace "To be verified when options 4 and/or 5 are/is specified, unless footnote <sup>f</sup> applies" with "To be verified when Options 4 or Option 5 or both is/are specified, unless footnote <sup>f</sup> applies."*

*In Table 4, footnote to table c, replace "Option 4: In addition to the test in Table 13, impact energy shall be verified at -10 °C." with "Option 4: Impact energy shall be verified for Group B (see Table 13; for specimen direction see 10.2.2.4)."*

*In Table 4, footnote to table d, add in "Option 5: Longitudinal impact energy shall be verified the text." at the end "at -10 °C".*

*In Table 4, footnote to table h, replace "97/23/EC" with "2014/68/EU".*

*In Table 5, replace in column "Wall thickness" of the line with steel name 7CrMoVTiB10-10 "≤ 50" with "≤ 60".*

## 8 Modification to 9.1, Types of inspection

In the NOTE, replace “97/23/EC” with “2014/68/EU”.

## 9 Modifications to 9.3 “Summary of inspection and verification testing”

In Table 13, footnote to table c, replace “Group A: tubes having wall thickness  $T \geq 16$  mm manufactured from steel grades 14MoV6-3, 25CrMo4, 20CrMoV13-5-5, 15NiCuMoNb5-6-4, X10CrMoVNB9-1, 7CrWVMoNb9-6, 7CrMoVTiB10-10, X10CrWMoVNB9-2, X11CrMoWVNB9-1-1 and X20CrMoV11-1,” with “Group A: tubes having wall thickness  $T \geq 16$  mm manufactured from steel grades 14MoV6-3, 25CrMo4, 20CrMoV13-5-5, 15NiCuMoNb5-6-4, X10CrMoVNB9-1, 7CrWVMoNb9-6, 7CrMoVTiB10-10, X10CrWMoVNB9-2, X11CrMoWVNB9-1-1 and X20CrMoV11-1”.

In Table 13, footnote to table c, replace “Group B: all tubes except group A.” with “Group B: tubes having wall thickness  $T < 16$  mm manufactured from steel grades 14MoV6-3, 25CrMo4, 20CrMoV13-5-5, 15NiCuMoNb5-6-4, X10CrMoVNB9-1, 7CrWVMoNb9-6, 7CrMoVTiB10-10, X10CrWMoVNB9-2, X11CrMoWVNB9-1-1 and X20CrMoV11-1 and all wall thicknesses manufactured from steel grades P195GH, P235GH, P265GH, 20MnNb6, 16Mo3, 8MoB5-4, 10CrMo5-5, 13CrMo4-5, 10CrMo9-10, 11CrMo9-10, X11CrMo5+I, X11CrMo5+NT1, X11CrMo5+NT2, X11CrMo9-1+I, X11CrMo9-1+NT.”.

## 10 Modification to Annex ZA

Replace Annex ZA with the following new one: “

### Annex ZA (informative)

#### Relationship between this European Standard and the Essential Requirements of EU Directive 2014/68/EU

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the New Approach Directive 2014/68/EU.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one Member State, compliance with the clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

**Table ZA.1 — Correspondence between this European Standard and the essential requirements of the EU Directive 2014/68/EU**

Essential Requirements (ERs) of the Directive 2014/68/EU	Clauses/subclauses of this EN	Qualifying remarks/Notes
Annex I, 4.1 a	8.3	Appropriate material properties
Annex I, 4.1 c	7.1 and 8.2	Ageing
Annex I, 4.1 d	7.2 and 8.4	Suitable for the processing procedures
Annex I, 4.3	9 and 10	Inspection Documentation

**EN 10216-2:2013/prA1:2018 (E)**

WARNING - Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.”.