

**SLOVENSKI STANDARD**  
**SIST EN 13480-2:2012/oprA9:2017**  
**01-marec-2017**

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**Kovinski industrijski cevovodi - 2. del: Materiali - Dopolnilo A9**

Metallic industrial piping - Part 2: Materials

Metallsiche industrielle Rohrleitungen - Teil 2: Werkstoffe

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**ICS:**

77.140.75	Jeklene cevi in cevni profili za posebne namene	Steel pipes and tubes for specific use
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**SIST EN 13480-2:2012/oprA9:2017**      **en,fr,de**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**EN 13480-2:2012**  
**prA9**

March 2017

ICS 23.040.01

English Version

## Metallic industrial piping - Part 2: Materials

Metallsiche industrielle Rohrleitungen - Teil 2:  
Werkstoffe

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 267.

This draft amendment A9, if approved, will modify the European Standard EN 13480-2:2012. 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: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN 13480-2:2012/prA9:2017) has been prepared by Technical Committee CEN/TC 267 “Industrial piping and pipelines”, the secretariat of which is held by AFNOR.

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(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of EN 13480-2:2012.

This document includes the text of the amendment itself. The amended/corrected pages of EN 13480-2:2012 will be published in the new Edition 2017 of the European Standard.

Additional Amendments EN 13480-2:2012/prA2 to prA8 and prA10 are under progress by Technical Committee CEN/TC 267 “Industrial piping and pipelines”.

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EN 13480-2:2012/prA9:2017 (E)

## **1 Modification to Annex A (normative), Grouping system for steels for pressure equipment**

*Replace the whole Annex A with the following one:*

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## Annex A (normative)

### Grouping system for steels for pressure equipment

Steels shall be grouped as shown in Table A.1. The figures given in group 1 are referring to the ladle analysis of the materials. The figures given in group 4 to 11 are based on the element content used in the designation of the alloys.

**Table A.1 — Grouping system for steels (extract from CEN ISO/TR 15608:2013)**

Group	Sub-group	Type of steel
1		Steels with a specified minimum yield strength $R_{eH} \leq 460 \text{ MPa}^a$ and with analysis in %: $C \leq 0,25$ $Si \leq 0,60$ $Mn \leq 1,80$ $Mo \leq 0,70^b$ $S \leq 0,045$ $P \leq 0,045$ $Cu \leq 0,40^b$ $Ni \leq 0,5^b$ $Cr \leq 0,3$ (0,4 for castings) <sup>b</sup> $Nb \leq 0,06$ $V \leq 0,10^b$ $Ti \leq 0,05$
	1.1	Steels with a specified minimum yield strength $R_e \leq 275 \text{ MPa}$
	1.2	Steels with a specified minimum yield strength $275 \text{ MPa} < R_e \leq 360 \text{ MPa}$
	1.3	Normalized fine grain steels with a specified minimum yield strength $R_e > 360 \text{ MPa}$
	1.4	Steels with improved atmospheric corrosion resistance whose analysis may exceed the requirements for the single elements as indicated under 1
2		Thermomechanically treated fine grain steels and cast steels with a specified minimum yield strength $R_e > 360 \text{ MPa}$
	2.1	Thermomechanically treated fine grain steels and cast steels with a specified minimum yield strength $360 \text{ N/mm}^2 < R_e \leq 460 \text{ MPa}$
	2.2	Thermomechanically treated fine grain steels and cast steels with a specified minimum yield strength $R_e > 460 \text{ MPa}$