



SLOVENSKI STANDARD
SIST EN 13445-2:2021+A1:2023/oprA2:2026
01-februar-2026

Nekurjene tlačne posode - 2. del: Materiali - Dopolnilo A2

Unfired pressure vessels - Part 2: Materials

Unbefeuerte Druckbehälter - Teil 2: Werkstoffe

Récipients sous pression non soumis à la flamme - Partie 2 : Matériaux

Ta slovenski standard je istoveten z: **EN 13445-2:2021+A1:2023/prA2**

ICS:

23.020.32

Tlačne posode

Pressure vessels

**SIST EN 13445-
2:2021+A1:2023/oprA2:2026**

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

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English Version

Unfired pressure vessels - Part 2: Materials

Réceptacles sous pression non soumis à la flamme -
Partie 2 : Matériaux

Unbefeuerte Druckbehälter - Teil 2: Werkstoffe

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 54.

This draft amendment A2, if approved, will modify the European Standard EN 13445-2:2021+A1:2023. 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

EN 13445-2:2021+A1:2023/prA2:2025 (E)

Contents	Page
European foreword.....	3
1 Modifications to Clause 2, “Normative references”	4
2 Modifications to Clause 5, “Requirements for materials to be used for non-pressure parts”	4
3 Modifications to B.2.2, “Method 1”	6
4 Modifications to B.2.3, “Method 2”	11
5 Modifications to E.2, “European standardised steels grouped according to product forms”	13
6 Modifications to Annex ZA, “Relationship between this European Standard and the Essential Requirements of EU Directive 2014/68/EU aimed to be covered”	40

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European foreword

This document (EN 13445-2:2021+A1:2023/prA2:2025) has been prepared by Technical Committee CEN/TC 54 “Unfired pressure vessels”, the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of EN 13445-2:2021.

This document includes the text of the amendment itself. The amendment will be consolidated within EN 13445-2:2021+A1:2023 in accordance with the maintenance system of EN 13445 series approved by the CEN/BT Decision C172/2021.

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EN 13445-2:2021+A1:2023/prA2:2025 (E)**1 Modifications to Clause 2, “Normative references”**

Replace the following normative references:

“EN 13445-4:2021, Unfired pressure vessels — Part 4: Fabrication

EN 13445-5:2021, Unfired pressure vessels — Part 5: Inspection and testing”

with:

“EN 13445-4:2021+A1:2023, Unfired pressure vessels — Part 4: Fabrication

EN 13445-5:2021+A1:2024, Unfired pressure vessels — Part 5: Inspection and testing”

and update the references throughout the text.

Add the following new normative references:

“EN 10088-2:2024, Stainless steels — Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resistant steels for general purposes

EN 10088-3:2023, Stainless steels — Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resistant steels for general purposes

EN 10088-4:2009, Stainless steels — Part 4: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes

EN 10088-5:2009, Stainless steels — Part 5: Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes

EN 10213:2007+A1:2016, Steel castings for pressure purposes

EN 10253-2:2021, Butt-welding pipe fittings — Part 2: Non alloy and ferritic alloy steels with specific inspection requirements”.

2 Modifications to Clause 5, “Requirements for materials to be used for non-pressure parts”

Replace the current text of Clause 5 with the following:

"5 Requirements for materials to be used for non-pressure parts**5.1 General**

For non-pressure parts, e.g. for supporting lugs, skirts, baffles and similar parts welded to pressure vessels, materials shall be used which are supplied to material specifications covering at least requirements for the chemical compositions and tensile properties.

These materials shall not limit the operating conditions of the material to which they are attached.

5.2 Yield strength and tensile strength of steels other than austenitic steels used for non- pressure parts

5.2.1 For steel with specified minimum values of 0,2 % proof strength at elevated temperatures, including ferritic and austenitic-ferritic steels in the annealed condition according to EN 10088-2:2024 and EN 10088-3:2023, the 0,2 % proof strength above 20 °C shall be determined in accordance with the procedure as specified in 4.2.2.

5.2.2 For structural steels without specified elevated temperature properties, including those listed in Table 5-2, the specified value of minimum yield strength R_{eH} at room temperature can be used for $R_{p0,2/T}$ at temperatures less than or equal to 50 °C. The yield strength reduction factor for higher temperatures are given in Table 5-1.