

SLOVENSKI STANDARD
SIST EN ISO 11114-1:1999/AC:1999
01-januar-1999

**Plinske jeklenke - Združljivost materialov za ventil in jeklenko s plinom - 1. del:
Kovinski materiali - Dopnilo AC (ISO 11114-1:1997)**

Transportable gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 1: Metallic materials (ISO 11114-1:1997)

Ortsbewegliche Gasflaschen - Verträglichkeit von Werkstoffen für Gasflaschen und Ventile mit den in Berührung kommenden Gasen - Teil 1: Metallische Werkstoffe (ISO 11114-1:1997)

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Bouteilles a gaz transportables - Compatibilité des matériaux des bouteilles et des robinets avec les contenus gazeux - Partie 1: Matériaux métalliques (ISO 11114-1:1997)

Ta slovenski standard je istoveten z: EN ISO 11114-1:1997/AC:1998

ICS:

23.020.30	Tlačne posode, plinske jeklenke	Pressure vessels, gas cylinders
23.060.40	Tlačni regulatorji	Pressure regulators

SIST EN ISO 11114-1:1999/AC:1999 **en**

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SIST EN ISO 11114-1:1999/AC:1999

<https://standards.iteh.ai/catalog/standards/sist/76099b52-317d-4535-bdfe-8054a1ea9bb9/sist-en-iso-11114-1-1999-ac-1999>



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

CORRIGENDUM	
to the adopted European Standard: à la Norme européenne adoptée: zu der angenommenen Europäischen Norm:	EN ISO 11114-1:1997
Transportable gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 1: Metallic materials (ISO 11114-1:1997)	

CEN/TC 23

1998-04-02

WI: 00023C02

EN 31 114-1 00015/54978

Sehr geehrte Mitglieder,

Dear Members,

Chers Membres,

Es wurde für nötig gehalten die Europäische Norm, die Ihnen am 15. Oktober 1997 zugesandt wurde, zu ändern.

It has been found it necessary to modify the European Standard sent to you on 15 October 1997.

Il a été jugé nécessaire d'apporter des modifications à la Norme européenne, qui vous a été envoyée le 15 octobre 1997.

Bitte fügen Sie das Corrigendum, in der drei offiziellen Sprachfassungen dieser Europäischen Norm ein.

We kindly request you to incorporate this corrigendum in the three official language versions of the European Standard.

Veillez trouver en annexe le corrigendum, destiné à être incorporé dans les trois versions linguistiques officielles de cette Norme européenne.

Mit freundlichen Grüßen,

Yours faithfully,

Veillez agréer, Chers Membres, l'expression de nos sentiments distingués.


G. HONZLER
Secretary General

Enclosures

T1/ANGL

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Contents

In the list of contents, replace the last line with the following text:

'Annex ZZ (informative) Corresponding International and European Standards for47
which equivalents are not given in the text'

Foreword

Insert 2 new paragraphs after the existing paragraph 1 as follows:

'The text of the draft standard was submitted to the Formal Vote and was approved by CEN as EN ISO 11114-1 on 97-09-18

This European Standard has been submitted for reference into the RID and/or in the technical annexes of the ADR. Therefore in this context the standards listed in the normative references and covering basic requirements of the RID/ADR not addressed within the present standard are normative only when the standards themselves are referred to in the RID and/or the technical annexes of the ADR.

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Clause 1

Add the following note after the 3rd paragraph:

NOTE. In this Standard the term "cylinder" refers to transportable pressure receptacles, which also include tubes and pressure drums.'

Clause 2

In paragraph 1, lines 1 and 4, replace 'European Standard' with 'Standard' (2 times).

Add dates to references as follows:

EN 720-2	1996	Transportable gas cylinders - Gases and gas mixtures - Part 2 : Determination of flammability and oxidizing ability of gases and gas mixtures
EN 849	1996	Transportable gas cylinders - Cylinder valves - Specification and type testing

prEN 1964-1	1995	Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless steel gas cylinders of capacity from 0,5 litre up to and including 150 litres - Part 1 : Seamless steel with a maximum R_m value of 1100 N/mm ²
prEN 1975	1996	Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless aluminium alloy gas cylinders of capacity from 0,5 litre up to 150 litre
prEN ISO 11114-2	1997	Transportable gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 2 : Non metallic materials
EN ISO 11114-3	1997	Transportable gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 3 : Autogenous ignition test in oxygen atmosphere

Add new references as follows:

EN 10088-1

Stainless steels - Part 1 : List of stainless steels

ISO 10156

1996

Gases and gas mixtures - Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets

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Clause 3

In line 1, replace 'European Standard' with 'Standard'

Clause 4.3.2

In paragraph 2, replace the 2nd sentence with the following:

'Special precautions (see EN ISO 11114-3) shall be taken for oxidizing gases (see ISO 10156 or the technically equivalent EN 720-2).'

Clause 4.3.4

Add a new clause 4.3.4 as follows:

'4.3.4 Reference is made in this Standard to stainless steels by their commonly used AISI identification numbers, eg 304. The equivalent grades in EN 10088-1 are as follows:

304	1.4301
304L	1.4306 - 1.4307
316	1.4401
316L	1.4404'

Clause 5.3

Replace the NOTE with the following:

NOTE : For 34 Cr Mo 4 Q and T steels and equivalent hydrogen partial pressures above 5 MPa (50 bar), the maximum ultimate tensile strength (UTS) of the steel should be 950 MPa. Some standards specify testing methods to select appropriate steels with appropriate maximum UTS for hydrogen cylinders. Equivalent partial pressure for hydrogen sulphide and methyl mercaptan is reduced to 0,25 MPa (2,5 bar) at a maximum UTS of 950 MPa.'

Clause 5.4

Replace the 2nd sentence with the following;

'Examples are the possible reaction of C_2H_2 with copper alloys containing more than 70% copper and of CH_3Cl in aluminium cylinders.'

Clause 6.1

Replace the NOTE with the following:

'The gases are generally listed in the English alphabetical order.'

Table 1

SIST EN ISO 11114-1:1999/AC:1999

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Gas No 17 (carbon dioxide) : Replace the 'key compatibility characteristics' text with the following:

'Risk of formation of toxic metal carbonyls.
Highly sensitive to any traces of moisture (> 5 ppmV at 20 MPa (200 bar)), in the presence of CO_2 (> 5 ppmV). Industrial grades of carbon monoxide normally contain traces of CO_2 . This can result in risk of stress corrosion, in the case of QTS, CS and NS cylinders if used at the normal service stress levels.'

Gas No 19 (carbonyl sulphide) : Replace the 'key compatibility characteristics' text with the following:

'Risk of formation of toxic metal carbonyls.
Highly sensitive to any traces of moisture (> 5 ppmV), in the presence of CO_2 (> 5 ppmV) ; industrial grades of carbonyl sulphide normally contain traces of CO_2 . This results in risk of stress corrosion, in the case of QTS, NS and CS.'

Gas No 35 (dichlorosilane) : Replace the 'key compatibility characteristics' text with the following:

'Hydrolyses to hydrogen chloride in contact with moisture. In wet conditions see specific risk of hydrogen chloride compatibility i.e.

severe corrosion of most materials and risk of hydrogen embrittlement.'

Gas No 41 (dimethylamine) : In column 3, line 2, move 'AA' to the next row.

Gas No 61 (hydrogen fluoride) : In column 2, line 3, replace 'excepted' with 'except'.

Gas No 63 (hydrogen sulphide) : In column 2, line 7, replace '5 ppmv' with '5 ppmV'.

Gas No 68 (propyne) : In column 2, line 1, replace 'contains' with 'contain'.

Gas No 70 (methyl mercaptan) : In column 2, line 7, replace '5 ppmv' with '5 ppmV'.

Gas No 82 (oxygen) : Replace the 'key compatibility characteristics' text with the following:

In presence of water NS, QTS and CS are corroded. The potential risk of violent reaction (ignition), especially for valves, shall be considered at the design stage. Cylinder valves shall be subject to testing to establish their suitability for oxygen service and their resistance to ignition (see prEN ISO 11114-2, EN ISO 11114-3 and EN 849).

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Annexes

Table A.1

[SIST EN ISO 11114-1:1999/AC:1999
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Change the title to read:

'List of gases with the corresponding NQSAB compatibility code'.

Gas No 25 (chlorotrifluoroethane) : In column 2, change the formula to read 'CH₂ClCF₃ (R133a)

Clause A.4

Group 2 : Replace the text with the following:

'Gases compatible with all materials but requiring steels compatible with the risk of hydrogen embrittlement (99911)'.

Group 11 : Replace the text with the following:

'Gases compatible with all materials except aluminium and requiring steels compatible with the risk of hydrogen embrittlement, high grade stainless steels and high grade bronze or nickel alloys (99202)'.

NOTE : Replace the text of the NOTE with the following:

'NOTE All materials means materials covered in this standard.'

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Table A.5

Gas No 94 : Correct the spelling of 'sulphur'.

Annex ZZ

After annex A, add a new annex ZZ with text as on the following page.

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