

SLOVENSKI STANDARD

SIST EN ISO 11114-2:2013

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Nadomešča:

SIST EN ISO 11114-2:2002

**Plinske jeklenke - Združljivost materialov za ventil in jeklenko s plinom - 2. del:
Nekovinski materiali (ISO 11114-2:2013)**

Gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 2:
Non-metallic materials (ISO 11114-2:2013)

Gasflaschen - Verträglichkeit von Flaschen- und Ventilwerkstoffen mit den in Berührung
kommenden Gasen - Teil 2: Nichtmetallische Werkstoffe (ISO 11114-2:2013)

Bouteilles à gaz - Compatibilité des matériaux des bouteilles et des robinets avec les
contenus gazeux - Partie 2: Matériaux non métalliques (ISO 11114-2:2013)

Ta slovenski standard je istoveten z: EN ISO 11114-2:2013

ICS:

23.020.30	Tlačne posode, plinske jeklenke	Pressure vessels, gas cylinders
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en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 11114-2

April 2013

ICS 23.020.30

Supersedes EN ISO 11114-2:2000

English Version

**Gas cylinders - Compatibility of cylinder and valve materials with
gas contents - Part 2: Non-metallic materials (ISO 11114-
2:2013)**

Bouteilles à gaz - Compatibilité des matériaux des
bouteilles et des robinets avec les contenus gazeux - Partie
2: Matériaux non métalliques (ISO 11114-2:2013)

Gasflaschen - Verträglichkeit von Flaschen- und
Ventilwerkstoffen mit den in Berührung kommenden Gasen
- Teil 2: Nichtmetallische Werkstoffe (ISO 11114-2:2013)

This European Standard was approved by CEN on 9 February 2013.

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.

CEN members are the national standards bodies of 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 United Kingdom.



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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN ISO 11114-2:2013) has been prepared by Technical Committee ISO/TC 58 "Gas cylinders" in collaboration with Technical Committee CEN/TC 23 "Transportable gas cylinders" 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 October 2013, and conflicting national standards shall be withdrawn at the latest by October 2013.

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 ISO 11114-2:2000.

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.

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Endorsement notice

The text of ISO 11114-2:2013 has been approved by CEN as EN ISO 11114-2:2013 without any modification.

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INTERNATIONAL
STANDARD

ISO
11114-2

Second edition
2013-04-01

**Gas cylinders — Compatibility of cylinder
and valve materials with gas contents —**

**Part 2:
Non-metallic materials**

*Bouteilles à gaz — Compatibilité des matériaux des bouteilles et
des robinets avec les contenus gazeux —
Partie 2: Matériaux non métalliques*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 11114-2 was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, in collaboration with Technical Committee CEN/TC 23, *Transportable Gas cylinders* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition. Clauses 4 and 6, and Table 1 of which have been technically revised. Annex A has been deleted.

ISO 11114 consists of the following parts, under the general title *Gas cylinders — Compatibility of cylinder and valve materials with gas contents*:

- *Part 1: Metallic materials;*
- *Part 2: Non-metallic materials;*
- *Part 3: Autogenous ignition test for non-metallic materials in oxygen atmosphere;*
- *Part 4: Test methods for selecting metallic materials resistant to hydrogen embrittlement.*

Introduction

This part of ISO 11114 deals with the compatibility of non-metallic materials used for gas cylinders and gas cylinder valves with the gas contents of the cylinder. Compatibility of metallic materials is treated in ISO 11114-1.

Non-metallic materials are very often used for the construction of gas cylinder valves as seals, e.g. o-ring, gland packing, seats, or as lubrication products to avoid friction. They are also commonly used to ensure sealing of the valve/cylinder connection. For gas cylinders, they are sometimes used as an internal coating or as a liner for composite materials.

Non-metallic materials not in contact with the gas are not covered by this part of ISO 11114.

This part of ISO 11114 is based on current international experience and knowledge. Some data are derived from experience involving a mixture of the gas concerned with a dilutant, where no data for single component gases were available.

This part of ISO 11114 has been written to be in conformity with the UN Recommendations on the Transport of Dangerous Goods: Model Regulations. When published it will be submitted to the UN Sub Committee of Experts on the Transport of Dangerous Goods with a request that it be included in the Model Regulations. Where there is any conflict between this part of ISO 11114 and any applicable regulation, the regulation always takes precedence.

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