



**SLOVENSKI STANDARD**  
**SIST EN ISO 11114-5:2022**

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**Plinske jeklenke - Združljivost materialov za ventil in jeklenko s plinom - 5. del:  
Preskusne metode za vrednotenje plastičnih notranjih prevlek (ISO 11114-5:2022)**

Gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 5:  
Test methods for evaluating plastic liners (ISO 11114-5:2022)

Gasflaschen - Verträglichkeit von Werkstoffen für Gasflaschen und Ventile mit den in  
Berührung kommenden Gasen - Teil 5: Prüfverfahren zur Bewertung der  
Kunststoffinnenbehälter (ISO 11114-5:2022)

Bouteilles à gaz - Compatibilité des matériaux des bouteilles et des robinets avec les  
contenus gazeux - Partie 5: Méthodes d'essai pour l'évaluation des liners en plastique  
(ISO 11114-5:2022)

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## Gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 5: Test methods for evaluating plastic liners (ISO 11114-5:2022)

Bouteilles à gaz - Compatibilité des matériaux des bouteilles et des robinets avec les contenus gazeux - Partie 5: Méthodes d'essai pour l'évaluation des liners en plastique (ISO 11114-5:2022)

Gasflaschen - Verträglichkeit von Werkstoffen für Gasflaschen und Ventile mit den in Berührung kommenden Gasen - Teil 5: Prüfverfahren zur Bewertung der Kunststoffinnenbehälter (ISO 11114-5:2022)

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## European foreword

This document (EN ISO 11114-5:2022) 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of an identical text or by endorsement, at the latest by July 2022, and conflicting national standards shall be withdrawn at the latest by July 2022.

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

**Part 5:  
Test methods for evaluating plastic  
liners**

*Bouteilles à gaz — Compatibilité des matériaux des bouteilles et des  
robinets avec les contenus gazeux —*

*Partie 5: Méthodes d'essai pour l'évaluation des liners en plastique*

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## ISO 11114-5:2022(E)

### Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 23, *Transportable gas cylinders*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 11114 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

Non-metallic materials are used for the manufacturing of liners of some composite gas cylinders and therefore are in contact with gas contents.

The compatibility of plastic liners with gas cylinder contents is a key parameter for the manufacturing of composite gas cylinders with plastic liners. Therefore, it is necessary to clarify such compatibility and to give test procedures and evaluation parameters.

This document provides some testing methodologies to evaluate suitability of plastic materials concerning the risks identified in ISO 11114-2. Furthermore, this document is intended to be used together with the design standard (e.g. ISO 11515, EN 12245) which gives the requirements for certain tests, as well as the criteria, while this document describes the test procedure.

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