Doc: MED 16 (24646)WC February 2024

### **BUREAU OF INDIAN STANDARDS**

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## भारतीय मानक मसौदा

# गैस सिलेंडर — गैस के संघटक से सिलेंडर एंव वाल्व सामग्री की अनुरूपता भाग 2 गैर-धातु सामग्री

( दूसरा पुनरीक्षण ) ( ISO 11114-2 : 2021 का अधिग्रहण )

**Draft** Indian Standard

# GAS CYLINDERS — COMPATIBILITY OF CYLINDER AND VALVE MATERIALS WITH GAS CONTENTS

#### PART 2 NON-METALLIC MATERIALS

(Second Revision)

( Adoption of ISO 11114-2: 2021 )

ICS 23.020.35

Gas Cylinders Sectional	Last	date	of	receipt	of
Committee, MED 16	comn	nent is	16 N	Tarch 202	24

### NATIONAL FOREWORD

(Adoption clause to be added later)

This standard was first published in 2013 and revised in 2015. The Indian Standard supersedes IS/ISO 11114-2: 2013 'Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents: Part 2 Non-metallic materials'. The main changes compared with the previous edition are as follows:

- a) New materials were added in Table 1; and
- b) Table 2, dedicated to the compatibility for liners, was added.

Under the general title 'Gas cylinders — Compatibility of cylinder and valve materials with gas contents', the standard is in six parts, other parts are as following:

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Part 1 Metallic materials

Part 3 Autogenous ignition test for non-metallic materials in oxygen atmosphere

Part 4 Test methods for selecting steels resistant to hydrogen embrittlement

Part 5 Test methods for evaluating plastic liners

Part 6 Oxygen pressure surge testing

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standard. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear, referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standard for which Indian Standard also exist. The corresponding Indian Standard, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

International Standard	Corresponding Indian Standard	Degree of Equivalence
ISO 11114-3, Gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 3: Autogenous ignition test for non-metallic materials in oxygen atmosphere	IS/ISO 11114-3: 2010 Gas cylinders  — Compatibility of cylinder and valve materials with gas contents: Part 3 Autogenous ignition test for non-metallic materials in oxygen atmosphere	Identical
ISO 15001, Anaesthetic and respiratory equipment — Compatibility with oxygen	IS/ISO 15001 : 2010 Anaesthetic and respiratory equipment — Compatibility with oxygen (first revision)	Identical

The technical committee has reviewed the provisions of the following International Standard referred in this adopted standard and has decided that it is acceptable for use in conjunction with this standard:

International	Title
Standard	
ISO 10286	Gas cylinders — Vocabulary
ISO 10297	Gas cylinders — Cylinder valves — Specification and type testing

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded

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off in accordance with IS 2: 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded-off value should be the same as that of the specified value in this standard.

**NOTE**: The technical content of the document has not been enclosed as these are identical with the corresponding ISO standard. For details, please refer the corresponding **ISO 11114-2 : 2021** or kindly contact:

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