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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 copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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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.