



**International
Standard**

ISO 21025

**Paints and varnishes — Assessment
of formaldehyde purification effect
of interior wall coatings by bag
method**

*Peintures et vernis — Évaluation de l'effet de purification du
formaldéhyde des revêtements muraux intérieurs par la méthode
du sac*

**First edition
2026-08**

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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

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Apparatus	2
6 Reagents and materials	2
7 Experimental system validation	3
7.1 Test equipment	3
7.2 Cleaning of sampling bags	3
7.3 Measurement of natural reduction ratio of formaldehyde in sampling bag	4
8 Analysis of formaldehyde concentration	4
9 Sampling	4
10 Standard test conditions	4
11 Test procedures	4
11.1 General	4
11.2 Preparation and condition of specimen panel	5
11.3 Measurement of initial formaldehyde purification efficiency	5
11.4 Measurement of long-term formaldehyde purification efficiency	5
11.4.1 Specimen panel saturation test	5
11.4.2 Test on long-term formaldehyde purification efficiency	5
11.4.3 Determination of formaldehyde emission from specimen panel	6
12 Precision	6
12.1 General	6
12.2 Repeatability limit, r	6
12.3 Reproducibility limit, R	6
13 Test report	6
Annex A (informative) Results of the interlaboratory test	7
Bibliography	9

Foreword

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This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*.

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Paints and varnishes — Assessment of formaldehyde purification effect of interior wall coatings by bag method

WARNING — The use of this document can involve hazardous materials, operations and equipment. This document does not purport to address all of the safety problems associated with its use. It is the responsibility of users of this document to take appropriate measures to ensure the safety and health of personnel prior to the application of the document, and to determine the applicability of any other restrictions for this purpose.

1 Scope

This document specifies the test method for evaluating the formaldehyde purification performance of interior wall coatings using the bag method.

This document is applicable to the measurement and evaluation of formaldehyde purification performance of various types of interior wall coatings.

This document can also apply to other indoor decoration materials with formaldehyde purification performance, such as wallpaper, carpets and decorative panels. Additionally, the method can be extended to the evaluation of the purification performance of other carbonyl compounds, such as acetaldehyde, propionaldehyde and butyraldehyde.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1513, *Paints and varnishes — Examination and preparation of test samples*

ISO 3696, *Water for analytical laboratory use — Specification and test methods*

ISO 15528, *Paints, varnishes and raw materials for paints and varnishes — Sampling*

ISO 16000-3, *Indoor air — Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air — Active sampling method*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

natural reduction ratio of formaldehyde in sampling bag

ratio of the reduced concentration of formaldehyde in the blank sampling bag to the initial concentration of formaldehyde within a certain period of time