



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS A 1902-1 : 2015

**Determination of the emission of
volatile organic compounds and
aldehydes by building products—
Sampling, preparation of test
specimens and testing condition—
Part 1: Boards, wallpaper and floor
materials**

ICS 13.040.20;71.040.40

Reference number : JIS A 1902-1 : 2015 (E)

PROTECTED BY COPYRIGHT

 **Documents**
Document Sharing Hub

105

Date of Establishment: 2006-12-20

Date of Revision: 2015-03-20

Date of Public Notice in Official Gazette: 2015-03-20

Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area
Technical Committee on Architecture

JIS A 1902-1:2015, First English edition published in 2016-02

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2016

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

PROTECTED BY COPYRIGHT

Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Sampling, and packaging and storage of samples	2
4.1 Site of sampling	2
4.2 Timing for sampling	2
4.3 Sampling procedure	3
4.4 Quantity of samples	3
4.5 Identification of samples	3
4.6 Packaging of samples	3
4.7 Storage of samples	4
5 Preparation of test specimens	4
5.1 Timing for preparation of test specimens	4
5.2 Preparation of test specimens	4
5.3 Quantity of test specimens to be prepared	5
5.4 Period of preparation of test specimens	5
5.5 Environment of test specimen preparation	5
5.6 Storage of sample prior to starting the testing	6
6 Sealing of test specimens	6
7 Test conditions	7
8 Installation of test specimens	8
9 Test method	8
10 Test report	8
Annex A (informative) Comparison table between previous and current editions of this Standard on technically significant revisions	10

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

Consequently **JIS A 1902-1:2006** is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

JIS A 1902 series consists of the following 4 parts under the general title “*Determination of the emission of volatile organic compounds and aldehydes by building products—Sampling, preparation of test specimens and testing condition*”:

Part 1: Boards, wallpaper and floor materials

Part 2: Adhesives

Part 3: Paints and coating materials

Part 4: Heat-insulating material boards

Determination of the emission of volatile organic compounds and aldehydes by building products—Sampling, preparation of test specimens and testing condition— Part 1: Boards, wallpaper and floor materials

Introduction

This Japanese Industrial Standard specifies practical testing conditions and other requirements for boards for building products, which correspond to the test method provisions given in **JIS A 1901** (hereafter referred to as “the small chamber method”).

This Standard was established in 2006 and the revision at this time has been made to ensure that this Standard, together with the small chamber method, can be used to speed up the process of incorporating the performance requirements regarding emissions of volatile organic compounds (hereafter referred to as “VOC”), formaldehyde and other carbonyl compounds into individual building products standards. The comparison table between previous and current editions of this Standard on technically significant revisions is given in Annex A.

No corresponding International Standard has been established at this point.

1 Scope

This Standard specifies, among requirements for determination of emission factor of VOC, formaldehyde and other carbonyl compounds from boards, wallpapers and floor materials used as building products using the small chamber method, those influencing the emission, such as sampling, storage and preparation of test specimens, and test conditions.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS A 1901 *Determination of the emission of volatile organic compounds and aldehydes by building products—Small chamber method*

JIS A 5404 *Cement bonded wood-wool and flake boards*

JIS A 5440 *Volcanic silicates fiber reinforced multi-layer board*

JIS A 5705 *Polyvinyl chloride floorcoverings*

JIS A 5902 *TATAMI*

JIS A 5905 *Fiberboards*

JIS A 5908 *Particleboards*

JIS A 5914 *Non straw TATAMIDOKO*

JIS A 6901 *Gypsum boards*

JIS A 6921 *Wallpaper and wallcoverings for decorative finish*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS A 1901**, and the following apply.

3.1 boards

rigid plate-form products to be used for interior products, that are either a single or a combined product

Material standards related to boards for building products are as follows: **JIS A 5404**, **JIS A 5440**, **JIS A 5905**, **JIS A 5908**, and **JIS A 6901**.

3.2 wallpaper

elastic sheet-form products to be used for interior finishing, which are compositely made from, typically, paper, plastics and fibers, etc.

A material standard related to wallpaper is **JIS A 6921**.

3.3 floor material

elastic sheet-form or rigid plate-form products to be used for the floor, that are either a single or combined product

Material standards related to floor materials are as follows: **JIS A 5705**, **JIS A 5902**, and **JIS A 5914**.

4 Sampling, and packaging and storage of samples

4.1 Site of sampling

Product samples shall be collected at the point of manufacture. Depending on the purpose of the test, samples may be collected from storehouses, retail stores or job sites where the products have been delivered.

4.2 Timing for sampling

Samples shall be taken as soon as possible after the normal manufacturing process. Where immediate sampling is impracticable, the individual product standard may specify a sampling from products stored in an ordinary storage place such as a storehouse. In this case, however, sampling should be performed within seven days after production, seven days being a period within which the conditions immediately after production is expected to be maintained.

NOTE : “As soon as possible after the normal manufacturing process” normally means “at the end of the production process”. However, in the case of products which require curing for moisture adjustment or dimensional stabilization, “as soon as possible as after the normal manufacturing process” is replaced by “as soon as possible after the completion of curing process when they are usable as products”.