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STANDARD

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**Determination of the emission of
volatile organic compounds and
aldehydes by building products—
Sampling, preparation of test
specimens and testing condition—
Part 2: Adhesives**

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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 1902-2:2006** is replaced with this Standard.

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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 2: Adhesives

Introduction

This Japanese Industrial Standard specifies practical testing conditions and other requirements for adhesives used as 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 B.

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 adhesives used as building product 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 5536 *Adhesives for resilient, textile and laminate floor coverings*

JIS A 5537 *Adhesives for anchoring wooden blocks*

JIS A 5538 *Adhesives for wall and ceiling boards*

JIS A 5547 *Adhesives for preformed cellular plastics thermal insulation board*

JIS A 5548 *Organic adhesives for ceramic tiles*

JIS A 5549 *Adhesives for fixture*

JIS A 5550 *Adhesives for floor joist*

JIS A 6922 *Adhesives for wallpaper and wallcoverings for decorative finish and TATEGU*

JIS K 6804 *Poly(vinylacetate) emulsion adhesives for woods*

JIS K 6806 *Water based polymer-Isocyanate adhesives for woods*

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 adhesives

transpiration control type building products which are used for adhesive bonding of buildings

Product standards of adhesives are as follows: **JIS A 5536, JIS A 5537, JIS A 5538, JIS A 5547, JIS A 5548, JIS A 5549, JIS A 5550, JIS A 6922, JIS K 6804, JIS K 6806.**

3.2 sample

adhesive to be applied on a stainless steel plate or a glass plate, which is an unopened and unexpired product collected from the parent population for the purpose of investigating its characteristics

3.3 test specimen

specimen prepared by applying a coating of the sample adhesive on a stainless steel plate or a glass plate over the coating area determined based on the product loading factor, and supplied for the emission characteristics test of the tested product performed in a small chamber

3.4 lot sample

a small-volume sample taken at the same time as the product immediately after production

3.5 product loading factor

ratio of the coated area of the sample to the chamber volume

3.6 curing period

time during which the test specimen is left to stand, from completion of its preparation to the test start (installation of the specimen in the small chamber)

4 Sampling

Samples shall be taken from adhesive products according to the following.

- a) Samples shall be taken from unexpired and unopened products that are under test.

NOTE : The object of sampling is products (or lot sample) stored in storage places such as storehouse.

- b) The quantity of samples taken shall be in accordance with the inspection method specified in the product standard.