



JAPANESE
INDUSTRIAL
STANDARD

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JIS K 5600-7-2 : 1999

Testing methods for paints— Part 7 : Long-period performance of film— Section 2 : Resistance to humidity (Continuous condensation)

ICS 87.040

Descriptors : paints, painting, membranes, chemical analysis and testing, durability,
endurance testing, water-vapour tests, condensation

Reference number : JIS K 5600-7-2 : 1999 (E)

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Foreword

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

JIS K 5400 corresponding to this Standard will be withdrawn and replaced with this Standard in April 2002, at the time of three years passed after establishment of this Standard.

Consequently it is recommended to comply with this Standard.

JIS K 5600 consists of the following parts.

JIS K 5600 Part 1 Section 1 to Section 8	<i>General rule</i>
JIS K 5600 Part 2 Section 1 to Section 7	<i>Characteristics and stability of paints</i>
JIS K 5600 Part 3 Section 1 to Section 6	<i>Film formability</i>
JIS K 5600 Part 4 Section 1 to Section 7	<i>Visual characteristics of film</i>
JIS K 5600 Part 5 Section 1 to Section 11	<i>Mechanical property of film</i>
JIS K 5600 Part 6 Section 1 to Section 3	<i>Chemical property of film</i>
JIS K 5600 Part 7 Section 1 to Section 8	<i>Long-period performance of film</i>
JIS K 5600 Part 8 Section 1 to Section 6	<i>Evaluation of degradation of paint coatings</i>

JIS K 5600-7 consists of the following sections under the title of "Testing methods for paints—Part 7 : Long-period performance of film".

JIS K 5600 Part 7 Section 1	<i>Resistance to neutral spray</i>
JIS K 5600 Part 7 Section 2	<i>Resistance to humidity (Continuous condensation)</i>
JIS K 5600 Part 7 Section 3	<i>Resistance to humidity (Intermittent condensation)</i>
JIS K 5600 Part 7 Section 4	<i>Humidity and cool-heat cycling test</i>
JIS K 5600 Part 7 Section 5	<i>Light fastness of film</i>
JIS K 5600 Part 7 Section 6	<i>Natural weathering test</i>
JIS K 5600 Part 7 Section 7	<i>Accelerated weathering (Exposure to filtered xenon-arc radiation)</i>
JIS K 5600 Part 7 Section 8	<i>Accelerated weathering (Exposure to fluorescent UV lamps)</i>

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**Testing methods for paints—
Part 7 : Long-period performance of film—
Section 2 : Resistance to humidity
(Continuous condensation)**

Introduction This Japanese Industrial Standard has been prepared based on ISO 6270 *Paints and varnishes-Determination of resistance to humidity (Continuous condensation)* issued in 1980 as the first edition without changing the technical contents, but with some addition of the provision not specified in the corresponding International Standard.

This Standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products. The method of test specified requires to be completed by the following supplementary information for any particular application. This information shall be derived from national standard or the International standard or other document for the product under test or, if appropriate, shall be the subject of agreement between the interested parties.

- a) Material, thickness and surface preparation of the substrate.
- b) Method of application of test coating and details of sealing of edges and backs of the test panels (if required).
- c) Thickness, in micrometres, of the dry coating, including method of measurement and whether it is a single coating or a multicoat system.
- d) Duration and conditions of drying of coated test panels (or conditions of stoving and ageing, if applicable) before testing.
- e) Duration of test period, including whether the test period is to be interrupted at intervals (for example during weekends).
- f) When inspection of the test coating is to be carried out, including details of recovery period if applicable.
- g) What characteristics of the test coating and substrate are to be considered in evaluating the resistance properties of the coating.

The portions underlined with dots and sidelined show the items not stated in the corresponding International Standard.

The International Standard corresponding to this Standard is ISO 6270 *Paints and varnishes-Determination of resistance to humidity (Continuous condensation)*.

1 Scope

1.1 This Standard specifies a method for determining the resistance of paint films, paints systems and allied products to conditions of high humidity.

1.2 The method is applicable to coatings both on porous substrates such as wood, plaster and plasterboard, and on non-porous substrates such as metal. It provides an indication of performance likely to be obtained under severe conditions of exposure where continuous condensation occurs on the surface.