

JIS

JAPANESE
INDUSTRIAL
STANDARD

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JIS K 5600-3-3 : 1999
(ISO 9117 : 1990)

**Testing methods for paints—
Part 3 : Film formability—
Section 3 : Through-dry**

ICS 87.040

Descriptors : paints, film-forming capacity, cross-cut test, testing, painting,
membranes, hardening, hardenability, drying, dry-heat tests

Reference number : JIS K 5600-3-3 : 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JIS K 5400 corresponding to this Standard will be withdrawn and replaced with this Standard in April 2002, at the time of three years passed after establishment of this Standard.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 5600-3 consists of the following sections under the title of "Testing methods for paints—Part 3 : Film formability".

JIS K 5600 Part 3 Section 1	<i>Assessment of natural spreading rate (Brush application)</i>
JIS K 5600 Part 3 Section 2	<i>Surface-drying test (Ballotini method)</i>
JIS K 5600 Part 3 Section 3	<i>Through-dry</i>
JIS K 5600 Part 3 Section 4	<i>Evaluation of the compatibility of product with a surface to be painted</i>
JIS K 5600 Part 3 Section 5	<i>Pressure test for stackability</i>
JIS K 5600 Part 3 Section 6	<i>Print free test</i>

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Testing methods for paints— Part 3 : Film formability— Section 3 : Through-dry

Introduction This Japanese Industrial Standard has been prepared based on ISO 9117, *Paints and varnishes—Determination of through-dry state and through-dry time—Method of test* issued in 1990 as the first edition without changing the technical contents.

The portions underlined with dots in this Standard are not stated in the original International Standard.

1 Scope This Standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products.

It specifies a test method for determining under standard conditions whether a single coat or a multi-coat system of paint or related material has, after a specified drying period, reached the through-dry state, i.e. a pass/fail test. The test procedure may also be used to determine the time taken to achieve that state.

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. If the indication of the year of coming into effect is given to these referred standards, only the edition of indicated year constitutes the provision of this Standard but the revision and amendment made thereafter are not applied. The normative references without the indication of the year of coming into effect apply limiting only to the most recent edition (including the amendment).

JIS K 5600-1-2 Testing methods for paints—Part 1 : General rule—Section 2 : Sampling of products

Remarks : ISO 1512 : 1991, *Paints and varnishes—Sampling of products in liquid or paste form* is identical with the said standard.

JIS K 5600-1-3 Testing methods for paints—Part 1 : General rule—Section 3 : Examination and preparation of samples for testing

Remarks : ISO 1513 : 1992, *Paints and varnishes—Examination and preparation of samples for testing* is identical with the said standard.

JIS K 5600-1-4 Testing methods for paints—Part 1 : General rule—Section 4 : Standard panels for testing

Remarks : ISO 1514 : 1993, *Paints and varnishes—Standard panels for testing* is identical with the said standard.

JIS K 5600-1-6 Testing methods for paints—Part 1 : General rule—Section 6 : Temperatures and humidities for conditioning and testing

Remarks : ISO 3270 : 1984, *Paints and varnishes and their raw materials—Temperatures and humidities for conditioning and testing* is identical with the said standard.