



JAPANESE
INDUSTRIAL
STANDARD

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Japanese Standards Association

JIS K 5600-3-1 : 1999
(ISO 7254 : 1984)

**Testing methods for paints—
Part 3 : Film formability—
Section 1 : Assessment of natural
spreading rate (Brush application)**

ICS 87.040

Descriptors : paints, film-forming capacity, cross-cut test, testing, painting, area measurement, membranes

Reference number : JIS K 5600-3-1 : 1999 (E)

K 5600-3-1 : 1999 (ISO 7254 : 1984)

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JIS K 5400 corresponding to this Standard will be withdrawn and replaced with this Standard in April 2002, at the time of three years passed after establishment of this Standard.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

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Testing methods for paints— Part 3 : Film formability— Section 1 : Assessment of natural spreading rate (Brush application)

Introduction This Japanese Industrial Standard has been prepared based on ISO 7254, *Paints and varnishes—Assessment of natural spreading rate—Brush application* issued in 1984 as the first edition without changing the technical contents.

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

For any particular application, the method of test described in this Standard needs to be completed by the following supplementary information. This information should be derived in part or totally from an (inter)national standard or other document related to the product under test or, if appropriate, should be agreed between the interested parties.

- a) Material, thickness and surface preparation of the substrate.
- b) The method of expressing the natural spreading rate (see clause 3).
- c) The attitude of the test surface, i.e. whether horizontal or vertical.
- d) The temperature of application of the paint or varnish.

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

1 Scope

1.1 This Standard describes a method for assessing the natural spreading rate of application of a product (in terms of area per wet film mass or area per wet film volume, as appropriate) when applied by brush to test panels.

1.2 The method is not suitable for products that contain highly volatile solvents.

Note : The results are dependent on the type and nature of the substrate. Although consistent results may be obtained by one operator, care should be taken if results between operators and between laboratories are to be compared. In such circumstances, the use of a common reference product is recommended.

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).