



JAPANESE
INDUSTRIAL
STANDARD

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JIS K 5600-2-7 : 1999

**Testing methods for paints—
Part 2 : Characteristics and
stability of paints—
Section 7 : Storage stability**

ICS 87.040

Descriptors : paints, film-forming capacity, cross-cut test, testing, stability

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

K 5600-2-7 : 1999

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JIS K 5400 corresponding to this Standard will be withdrawn and replaced with this Standard in April 2002, at the time of three years passed after establishment of this Standard.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 5600-2 consists of the following sections under the title of "Testing methods for paints—Part 2 : Characteristics and stability of paints".

JIS K 5600 Part 2 Section 1	<i>Colour number (Gardner method)</i>
JIS K 5600 Part 2 Section 2	<i>Viscosity</i>
JIS K 5600 Part 2 Section 3	<i>Viscosity (Corn and plate methods)</i>
JIS K 5600 Part 2 Section 4	<i>Density</i>
JIS K 5600 Part 2 Section 5	<i>Fineness of grind</i>
JIS K 5600 Part 2 Section 6	<i>Pot life</i>
JIS K 5600 Part 2 Section 7	<i>Storage stability</i>

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Testing methods for paints— Part 2 : Characteristics and stability of paints— Section 2 : Storage stability

Introduction This Japanese Industrial Standard has been additionally prepared to specify the testing methods for storage stability required at the establishment and revision of the standard for paint products, which is not included in the currently valid ISO standards of general testing methods for paints.

1 Scope This Japanese Industrial Standard is one of a series of standards dealing with the sampling and test for paints and their related products. This Standard specifies the testing method to examine whether the paints and their related products are stable or not at the time of use after having been stored.

2 Normative references The following standard contains provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent edition (including amendments) of the standard indicated below shall be applied.

JIS K 5600-1-1 *Testing methods for paints—Part 1 : General rule—Section 1 : General test methods (conditions and methods)*

3 Classification The storage stability of paints shall be classified into the following four classes.

- a) Storage stability at low temperature
- b) Skinning
- c) Storage stability at room temperature
- d) Storage stability at warm temperature

4 Storage stability at low temperature

4.1 Summary The sample is stored at low temperature and returned to room temperature. After this operation is repeated three times, the change of material quality of sample is judged by examining the uniformity by stirring and furthermore by testing “coating workability” and “an appearance of coating film”.

This method is mainly applied to the emulsion type of paint.

4.2 Apparatus and instruments The apparatus and instruments shall be as follows.

- a) **Low-temperature-controlled enclosure** The low-temperature-controlled enclosure capable of maintaining at $-5\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ in temperature.
- b) **Container** The container shall be of the metallic, inner-coated can of about 1 l in capacity and 100 mm to 120 mm in diameter.
- c) **Coating tools** The coating tools specified in the product standard for the sample.