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JIS K 5600-2-1 : 1999

(ISO 4630 : 1981)

Testing methods for paints— Part 2 : Characteristics and stability of paints— Section 1 : Colour number (Gardner method)

ICS 87.060.20

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

Reference number : JIS K 5600-2-1 : 1999 (E)



Documents

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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JIS K 5400 corresponding to this Standard will be withdrawn and replaced with this Standard in April 2002, at the time of three years passed after establishment of this Standard.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 5600-2 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 1 : Colour number (Gardner method)

Introduction This Japanese Industrial Standard has been prepared based on ISO 4630 *Binders for paints and varnishes—Estimation of colour of clear liquids by the Gardner colour scale* issued in 1981 without changing the technical contents.

1 Scope This Standard specifies a method of estimating the colour of clear liquids, used as binders for paints and varnishes, by means of the Gardner colour scale.

Remarks : This Standard is applicable to drying oils, varnishes, and solutions of fatty acids, polymerized fatty acids and resins. Its applicability to other materials has not been established.

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions (including the amendment) of the standards indicated below shall be applied.

ISO 842 *Raw materials for paints and varnishes—Sampling*

CIE Publication No. 15. *Colorimetry*

3 Principle Visual comparison of the colour of a sample, in a glass tube of standard diameter, with the colours of arbitrarily numbered colour standards, identification of the standard that most closely matches the colour of the sample, and expression of the result in terms of a Gardner colour number.

4 Apparatus

4.1 Gardner colour standards

4.1.1 Reference standards

- a) Reference standards are glass colour standards having chromaticity coordinates and luminous transmittances as specified in Table 1.
- b) Eighteen glass colour standards are required.
- c) The colour shall be produced by the glass components only.
- d) The width of the glass colour standards shall be not less than 14 mm. The standards should be mounted in such a way that they may be conveniently manipulated and allow simultaneous appearance of two adjacent standards in the colour comparator (4.3).

Note : Glass colour standards that do not conform to the requirements in the table should be rejected.

Before being used, glass colour standards should be checked by the method specified in Annex A.