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मानक

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IS 101-7-4 (1990): Methods of sampling and test for paints, varnishes and related products, Part 7: Environmental tests on paint films, Section 4: Resistance to bleeding of pigments [CHD 20: Paints, Varnishes and Related Products]



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“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक
रोगनों, वार्निशों और सम्बद्ध उत्पादों के नमूने लेने और
परीक्षण की पद्धतियाँ

भाग 7 रोगन फिल्मों के पर्यावरणीय परीक्षण

अनुभाग 4 वर्णकों की निःस्त्रवण के प्रतिरोधिता

(तीसरा पुनरीक्षण)

Indian Standard

**METHODS OF SAMPLING AND TEST FOR
PAINTS, VARNISHES AND RELATED
PRODUCTS**

PART 7 ENVIRONMENTAL TESTS ON PAINT FILMS

Section 4 Resistance to Bleeding of Pigments

(Third Revision)

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(Including Amendment No. 1)

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BUREAU OF INDIAN STANDARDS
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AMENDMENT NO. 1 MARCH 1999
TO
IS 101 (PART 7/SEC 4) : 1990 METHODS OF
SAMPLING AND TEST FOR PAINTS, VARNISHES AND
RELATED PRODUCTS

PART 7 ENVIRONMENTAL TESTS ON PAINT FILMS

Section 4 Resistance to Bleeding of Pigments

(Third Revision)

(Page 1, clause 4.2, line 1) — Substitute 'brushing/spraying' for
'brushing'.

(CHD 20)

4687BIS/08

FOREWORD

This Indian Standard (Part 7/Sec 4) (Third Revision) was adopted by the Bureau of Indian Standards on 29 January 1990 after the draft finalized by the Paints and Allied Products Sectional Committee had been approved by the Chemical Division Council.

This standard is one of a series dealing with sampling and testing of paints, varnishes and related products. In the preparation of this standard, considerable assistance has been derived from ISO : 787/22-1980 'General methods of test for pigments and extenders, Part 22 Comparison of resistance of bleeding of pigments published by the International Organization for Standardization (ISO).

In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'.

*Indian Standard***METHODS OF SAMPLING AND TEST FOR
PAINTS, VARNISHES AND RELATED
PRODUCTS****PART 7 ENVIRONMENTAL TESTS ON PAINT FILMS****Section 4 Resistance to Bleeding of Pigments****(Third Revision)****1 SCOPE**

1.1 This standard (Part 7/Sec 4) prescribes a method for comparing the resistance to bleeding of a pigment with that of an agreed sample.

2 REFERENCES

2.1 The following Indian Standards are the necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
101 (Part 1/ Sec 1) : 1986	Methods of sampling and test for paints, varnishes and related products : Part 1 Tests on liquid paints (general and physical), Section 1 Sampling (<i>third revision</i>).
101 (Part 11 Sec 3): 1986	Methods of sampling and test for paints, varnishes and related products : Part 1 Tests on liquid paints (general and physical), Section 3 Preparation of panels (<i>third revision</i>).

3 SAMPLING

3.1 A representative sample to be drawn as prescribed in IS 101 (Part 1/Sec 1) : 1986.

4 PREPARATION OF PANELS

4.1 The metal panels, for example of bright tin-plate or aluminium, 150 mm x 100 mm shall be prepared as prescribed in IS 101 (Part 1/Sec 3) : 1986.

4.2 Apply two coats by brushing, over two-thirds of the length of a test panel, so that one end of the panel is left uncoated. Allow the film to dry as specified or subject it to the specified stoving conditions as appropriate.

4.3 Prepare a test panel using agreed standard sample in the same manner.

5 REAGENTS

5.1 Silicon Carbide Paper, Grade 400.

5.2 Black and White Charts

As used for hiding-power determinations.

5.3 Agreed Medium

The medium may be suitable either for drying at ambient temperature or for stoving for a specified time at a specified temperature, as agreed between the interested parties.

5.4 White Overcoating Composition

The composition is to be agreed between the interested parties.

6 PROCEDURE

6.1 The coated area of the panel may be lightly abraded with the silicon carbide paper before the next stage of application. To a part of the uncoated area, attach a piece of black and white chart.

6.2 The white overcoating composition is applied over two-thirds of the length of the panel so as to leave one end coated only with the dispersion of the pigment under test, the centre one-third coated with both pigment dispersion and overcoating, and the other end and the black and white chart with only the overcoating. The overcoating shall be applied thick enough to cover the black and white pattern of the chart.

6.3 Allow the film to dry at ambient temperature or subject it to the specified stoving conditions as appropriate.

IS 101 (Part 7/Sec 4) : 1990

6.4 Immediately after the overcoating film is dry, compare, in diffuse daylight, the degree of bleeding, as shown by the difference in colour between the areas of the panels coated with white composition only and with the white composition over the pigment dispersion of the test sample, with the degree of bleeding of the agreed sample, and note whether it is equal to, greater than,

or less than that the agreed sample. If daylight is not available, make the comparison in artificial daylight.

6.4.1 The comparison shall be repeated after 24 h.

NOTE — If required and agreed, the degree of bleeding may be assessed by using a suitable colorimeter.

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Amendments Issued Since Publication

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