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IS 15626 (2006): Textiles - Method for determination of colour fastness of textiles to saliva and perspiration
[TXD 5: Chemical Methods of Test]
Indian Standard

TEXTILES — METHOD FOR DETERMINATION OF COLOUR FASTNESS OF TEXTILES TO SALIVA AND PERSPIRATION

ICS 59.080.01
FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Chemical Methods of Test Sectional Committee had been approved by the Textile Division Council.

Resistance of colour of textile materials to saliva and perspiration is vary important specially for childrenwear which are normally exposed to these agencies during actual use.

The composition of the Committee responsible for formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounding off in accordance with IS 2 : 1960 ‘Rules for rounding off numerical values (revised)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in the standard.
Indian Standard

TEXTILES — METHOD FOR DETERMINATION OF COLOUR FASTNESS OF TEXTILES TO SALIVA AND PERSPIRATION

1 SCOPE
This standard prescribes a method for determination of colour fastness of textiles under normally expected conditions of use to the mouth mucous membranes or skin.

2 REFERENCES
The following standards contain provisions which through reference in this text constitute provisions of this standard. At the time of publications, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<table>
<thead>
<tr>
<th>IS No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1070 : 1992</td>
<td>Reagent grade water (third revision)</td>
</tr>
<tr>
<td>6128 : 1971</td>
<td>Desiccators</td>
</tr>
</tbody>
</table>

3 TEST APPARATUS AND REAGENTS

3.1 Whatman Filter Paper No. 1

3.2 Adhesive Tape, colourless, self-adhesive plastics tape, about 12 mm wide.

3.3 Test Solution 1, Consisting of:
   a) Sodium bicarbonate (NaHCO₃) for analysis : 4.2 g
   b) Sodium chloride (NaCl) for analysis : 0.5 g
   c) Potassium carbonate (K₂CO₃) for analysis : 0.2 g
   d) Distilled water, Grade III (see IS 1070) : 1 000 cm³

3.4 Test Solution 2, Consisting of:
   a) Sodium chloride (NaCl) for analysis : 4.5 g
   b) Potassium chloride (KCl) for analysis : 0.3 g
   c) Sodium sulphate (Na₂SO₄) for analysis : 0.3 g
   d) Ammonium chloride (NH₄Cl) for analysis : 0.4 g
   e) Lactic acid CH₃-CH(OH).COOH, approximately 90 percent, ultra pure : 3.0 g
   f) Urea H₂N.CO. NH₂, for analysis : 0.2 g
   g) Distilled water Grade III, (see IS 1070) : 1 000 cm³

3.5 Non-vacuum Desiccator (see IS 6128)

3.6 Hot air oven suitable for maintaining temperature of 40 ± 2°C.

4 PROCEDURE

4.1 According to the size of the textile being tested (referred to below as the specimen) two strips of filter paper about 15 mm wide and up to 80 mm long are cut.

4.2 One strip of filter paper is saturated with test solution 1 and the other with test solution 2.

4.3 The saturated filter paper strips are placed on the specimen separated from each other by at least 10 mm and fixed on the specimen with the adhesive tape in such a manner that the most intimate contact possible exists between the specimen and the saturated filter paper. The adhesive tape shall cover the full length of the filter paper strip and shall extend beyond the paper at both ends by at least 10 mm.

4.4 The specimen prepared according to 4.3, is conditioned over water in a desiccator for 2h at 40 ± 2°C. The desiccator must previously be brought up to the test temperature in a hot cabinet and remain in the cabinet throughout the testing.

4.5 The filter paper is then taken from the specimens and examined for takeup of colouring. If no traces of colouring can be detected on either of the pieces of filter paper, the test result is quoted as resistant to saliva and perspiration. Otherwise the result is given as not resistant to saliva and perspiration.

5 TEST REPORT
The test report shall contain the following information:

a) Test result: resistant to saliva and perspiration or not resistant to saliva and perspiration as the case may be.

b) Date of test.
ANEX A
(Foreword)

COMMITTEE COMPOSITION
Chemical Methods of Test Sectional Committee, TX 05

Organization

Textiles Committee, Mumbai
Ahmedabad Textile Industry's Research Association, Ahmedabad
Bapuji Institute of Engineering & Technology, Davangere
Central Institute for Research on Cotton Technology, Mumbai
Clariant (India) Ltd, Mumbai
Indian Jute Industries Research Association, Kolkata
Jayshree Textiles, Rishra
L. N. Chemical Industries, Mumbai
Maniklal Verma Textile Institute, Bhilwara
Man-Made Textile Research Association, Surat
Ministry of Defence (DGQA), New Delhi
Ministry of Defence (R&D), New Delhi
National Textile Corporation Limited, New Delhi
Office of the Textile Commissioner, Mumbai
Sunit Industries Ltd, Mumbai
Tex-n-Lab, Thane, Mumbai
The Synthetics & Art Silk Mills Association Ltd, Mumbai
Suditi Industries Ltd, Navi Mumbai
Textiles Committee, Mumbai
Textiles & Engg Institute, Ichalkaranji
The Bombay Dyeing & Mfg Co Ltd, Mumbai
The Bombay Millowners' Association, Mumbai
The Bombay Textile Research Association, Mumbai

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Shri Mahesh Sharma (Alternate)
Shri A. V. Afini
Shri C. J. Kolgaonkar (Alternate)
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<td>SHRI M. D. Dixit</td>
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<tr>
<td>Housing Society, Veer Savarkar Marg, Prabhadevi, Dadar, Mumbai 400028)</td>
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<tr>
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<td>SHRI M. S. Verma, Director and Head (Textile)</td>
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**Member Secretary**

SHRI A. KUMAR

**Joint Director (Textile), BIS**
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**Amendments Issued Since Publication**

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