### भारतीय मानक Indian Standard

## वस्त्रादि — हथकरघा सूती हॉलैंड कपड़ा, अनभिमार्जित — विशिष्टि

IS 1096: 2024

(दूसरा पुनरीक्षण)

# Textiles — Handloom Cotton Holland Cloth, Unscoured — Specification

(Second Revision)

ICS 59.080.30

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भारतीय मानक ब्यूरो

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#### **FOREWORD**

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Handloom and Khadi Sectional Committee had been approved by the Textiles Division Council.

This standard was first published in 1957 and subsequently revised in 1987. The standard has again been revised to incorporate the following changes:

- a) Test method for identification of material has been incorporated;
- b) Method of test for count of yarn along with its tolerance has been specified;
- c) Marking clause has been modified;
- d) References to standards have been updated; and
- e) Sampling plan has been modified.

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

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 rounded off in accordance with IS 2:2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

#### Indian Standard

## TEXTILES — HANDLOOM COTTON HOLLAND CLOTH, UNSCOURED — SPECIFICATION

(Second Revision)

#### 1 SCOPE

- **1.1** This standard prescribes constructional particulars and other requirements of handloom cotton holland cloth, unscoured.
- **1.2** This standard does not specify the general appearance, lustre, feel, finish, etc of the cloth.

#### 2 REFERENCES

The standards listed in Annex A contain provisions, which through reference in this text, constitute provisions of this standard. At the time of publication, 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 edition of these standards.

#### 3 MANUFACTURE

#### 3.1 Yarn

The cotton yarn used in the manufacture of cloth shall conform to IS 171.

The warp used in the manufacture of cloth shall be unbleached, and the weft, grandrelle yarn (*see* Note) and shall be such that the cloth produced complies with the requirements of this standard.

NOTE — Grandrelle yarn has been defined as a two-ply yarn composed of single yarns which differ from each other in colour or lustre (see IS 232).

#### 3.2 Cloth

The cloth shall be free from substances liable to cause subsequent tendering.

#### **4 REQUIREMENTS**

- **4.1** The constructional particulars of cloth shall conform to those given in <u>Table 1</u>.
- **4.2** The cloth shall also conform to the requirements given in Table 2.
- **4.3** If in order to illustrate or specify the indeterminable characteristics such as general

appearance, lustre, feel and shade of the cloth, a sample has been agreed upon and sealed, the supply shall be in conformity with the sample in such respects.

The custody of the sealed sample shall be a matter of prior agreement between the buyer and the seller.

#### **5 INSPECTION**

The cloth when visually inspected, should be reasonably free from following defects:

- a) Weft crack or more than two missing picks across the width;
- b) Prominently noticeable weft bar due to the difference in raw material, count, twist, lustre, shade, etc;
- c) More than two adjacent ends running parallel, broken or missing and extending beyond 15 cm;
- d) Prominent selvedge defects;
- e) Noticeable warp or weft float;
- f) Noticeable oil or other stains;
- g) Noticeable hole, cut or tear up to 3 mm in size; and
- h) Smash rupturing the texture of the fabric.

A reference may be made to IS 14466 for details of the defects.

#### 6 SAMPLING

#### 6.1 Lot

The quantity of handloom cotton holland cloth of the same variety, width and colour delivered to a buyer at a time shall constitute a lot.

- **6.2** To ascertain the conformity of the lot to the requirements of this standard, sample shall be drawn and inspected from each lot separately.
- **6.3** The number of pieces to be selected at random for inspection shall be in accordance with <u>Table 3</u>.

#### 6.4 Number of Tests and Criteria for Conformity

Sl No.	Characteristic	Number	Criteria for
(1)	(2)	of Tests (3)	Conformity (4)
i)	Visual inspection, ends, picks, count, length and width	According to co1 (3) of Table 3	Number of non-conforming pieces shall not exceed the corresponding number given in col (4) of Table 3
ii)	Dimensional change, weight, colour fastness, fibre identification and scouring loss	According to col (5) of Table 3	pieces shall meet the

#### 7 MARKING

- **7.1** The cloth shall be suitably marked or labelled with the following information:
  - a) Name of the material;

- b) Manufacturer's name, initials or trademark;
- c) Month and year of manufacture;
- d) Length and width of the piece;
- e) Indication of the source of manufacture; and
- f) Other declarations required as per law in force.

#### 7.2 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the Rules and Regulations framed thereunder, and the product may be marked with the Standard Mark.

#### **8 PACKING**

Unless otherwise agreed upon by the buyer and the seller, the cloth shall preferably be packed in bales or cases in conformity with the procedure laid down either in IS 1347 or IS 293.

Table 1 Constructional Particulars of Handloom Cotton Holland Cloth, Unscoured

(<u>Clause 4.1</u>)

Sl No.		Characteristic	Requirements	Method of Test Ref to
(1)		(2)	(3)	(4)
i)		of yarn (approx) (for guidance only) tton count):		IS 3442
	a)	Warp	37 (or 16s) $\pm$ 5 percent	
	b)	Weft	59 (or $10s$ ) $\pm 5$ percent	
ii)	Numbe	r of threads, per dm:		IS 1963
	a)	Ends	$200 \pm 5$ percent	
	b)	Picks	$170 \pm 5$ percent	
iii)	Weight	of fabric, g/m <sup>2</sup>	$200 \pm 5$ percent	IS 1964
iv)	Dimens	ions:		IS 1954
	a)	Length, m	As declared or agreed (see Note)	
	b)	Width, cm	71, 76, 91 or as agreed (– 2 percent tolerance)	
v)	Weave		plain	visual

Table 2 Requirements of Handloom Cotton Holland Cloth, Unscoured

(*Clause* 4.2)

Sl No.	Characteristic	Requirements	Method of Test, Ref to
(1)	(2)	(3)	(4)
i)	Colour fastness rating to: a) Light	4 or better	IS/ISO 105-B01 or IS/ISO 105-B02
	<ul><li>b) Washing test 4:</li><li>1) Change in colour</li><li>2) Staining on cotton</li></ul>	3 or better	IS/ISO 105-C10
ii)	Scouring loss, percent, Maximum	10	IS 1383
iii)	Dimensional change, percent, Maximum	5	IS 9
iv)	Fibre identification	100 percent cotton	IS 667

Table 3 Sample Size and Permissible Number of Non-Conforming Pieces

(Clauses  $\underline{6.3}$  and  $\underline{6.4}$ )

Sl No.	Lot Size	Sample Size	Permissible No. of Non- Conforming pieces	Sub Sample Size
(1)	(2)	(3)	(4)	(5)
i)	Up to 90	5	0	3
ii)	91 to 150	8	0	3
iii)	151 to 500	13	1	5
iv)	501 to 1 200	20	1	5
v)	1 201 to 10 000	32	2	8
vi)	10 001 to 35 000	50	3	8
vii)	35 001 to 500 000	80	5	13
viii)	500 001 and above	125	7	13

#### ANNEX A

(<u>Clause 2</u>)

#### LIST OF REFERRED STANDARDS

IS No.	Title	IS No.	Title
IS 9 : 2019/ ISO 675 : 2014	Textiles — Woven fabrics — Determination of dimensional change on commercial laundering	IS 1963 : 1981	Methods for determination of threads per unit length in woven fabrics (second revision)
	near the boiling point (third revision)	IS 1964 : 2001	Textiles — Methods for determination of mass per
IS 171 : 1993	Textiles — Ring spun grey cotton yarn for weaving — Specification (fourth		unit length and mass per unit area of fabrics (second revision)
IS 232 : 2020	revision) Glossary of textile terms — Natural fibres (third revision)	IS 3442 : 2023	Textiles — Method for determination of crimp and linear density of yarn removed from fabric (second revision)
IS 293 : 1980	Code for seaworthy packaging of cotton yarn and cloth (third revision)	IS 14466 : 1997/ ISO 8498 : 1990	Fabrics — Description of defects — Vocabulary
IS 667 : 1981	Methods for identification of textile fibres (first revision)	IS/ISO 105-B01 : 2014	Textiles — Tests for colour fastness: Part B01 Colour fastness to light: Daylight
IS 1347 : 1972	Specification for inland packaging of cotton cloth and yarn (first revision)	IS/ISO 105-B02 : 2014	Textiles — Tests for colour fastness: Part B02
IS 1383 : 2023	Methods for determination of scouring loss in grey and finished cotton textile		Colour fastness to artificial light: Xenon arc fading lamp test
	materials (second revision)	IS/ISO 105-C10 : 2006	Textiles — Tests for colour fastness: Part C10
IS 1954 : 2024/ ISO 22198 : 2006	Textiles — Fabrics — Determination of width and length (third revision)		Colour fastness to washing with soap or soap and soda

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#### ANNEX B

(Foreword)

#### COMMITTEE COMPOSITION

Handloom and Khadi Sectional Committee, TXD 08

Organization Representative(s)

Weavers Service Centre, Delhi Shri Vishesh Nautiyal (*Chairperson*)

SHRI VIKAS KUMAR (Alternate)

Central Pollution Control Board, New Delhi SHRI P. K. MISHRA

SHRI RISHABH SRIVASTAV (Alternate)

Center of Excellence for Khadi (COEK)-NIFT,

New Delhi

REPRESENTATIVE

CRPF, New Delhi Shri D. P. Upadhyay

SHRI SANJEEV KUMAR SINGH (Alternate)

Department of Handlooms & Textiles, Chennai Shri Thiru R. Raghunath

SHRI THIRU K. MUNUSAMY (Alternate)

Fabindia, New Delhi REPRESENTATIVE

Flag Foundation of India, New Delhi Shri Ashim Kohli

Gandhigram Rural Institute, Dindigul DR B. SENTHIL KUMAR

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Karnatka Khadi Gramodyog Samyuktha Sangha, Hubli Shri K. V. Pattar

SHRI SHIVANANDA S. MATHAPATI (Alternate)

Khadi Dyers & Printers, Mumbai Shri D. N. Bhatt

SHRI V. D. JOSHI (Alternate)

Khadi Gramodyog Mandal, Rampur SHRI RAKESH CHAUDHARY

SHRI PRINCE CHAUDHARY (Alternate)

Organization

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