भारतीय मानक Indian Standard

वस्त्रादि — हथकरघा बकरम कपड़ा — विशिष्टि

IS 1102: 2024

(दूसरा पुनरीक्षण)

Textiles — Handloom Buckram Cloth — 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.

Buckram cloth is generally used for interlining of garments to give stiffness. It is also used in millinery to give hats shape and structure.

This standard was first published in 1957 and subsequently revised in 1968. The standard has again been revised to incorporate the following changes:

- a) All amendments have been incorporated;
- b) Marking clause has been modified;
- c) References to standards have been updated; and
- d) Sampling plan has been updated.

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 BUCKRAM CLOTH — SPECIFICATION

(Second Revision)

1 SCOPE

- **1.1** This standard prescribes the constructional details and other particulars of four varieties of handloom buckram cloth.
- **1.2** This standard does not specify the indeterminable characteristics like general appearance, feel and shade of the cloth ($see \, \underline{5.1}$).

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 yarn used in the manufacture of cloth should be reasonably free from defects and shall be such that the cloth produced complies with the requirements of this standard. The warp yarn used in the manufacture of cloth shall be of two fold cotton. The weft yarn shall be of single worsted in case of Variety 1 and of single jute in case of other varieties. The approximate count of warp and weft yarn used in the manufacture of cloth is given below.

Sl	Variety	Warp	Weft
No.	No.	Universal	Universal
		Count	Count
		(Cotton	(Metric Count
		Count)	or Grist)
(1)	(2)	(3)	(4)
i)	1	$30 \text{ tex} \times 2$	40 tex (25
		(20s/2)	Nm)
ii)	2	$30 \text{ tex} \times 2$	140 tex (4s)
		(20s/2)	
iii)	3	15 tex \times 2	140 tex (4s)
		(40s/2)	
iv)	4	$30 \text{ tex} \times 2$	140 tex (4s)
		(20s/2)	

NOTES — To convert universal count in tex to:

- a) cotton count, divide 590.5 by the universal count;
- b) metric count, divide 1 000 by the universal count; and
- c) grist, multiply 0.029 03 by the universal count.

3.2 Cloth

- **3.2.1** The cloth shall be woven in plain weave.
- **3.2.2** The selvedges shall be firm and well-woven.
- **3.2.3** The cloth conforming to Variety No. 1 shall be mothproofed. The cloth conforming to other varieties may also be mothproofed, if specified by the buyer.

NOTE — Copper naphthenate is a suitable mothproofing agent. The amount of copper content calculated as copper in the cloth, if treated with copper naphthenate shall be not less than 0.65 percent when tested by the relevant method given in IS 3522 (Part 3). The amount of proofing agents present in the cloth, when treated with materials other than copper naphthenate shall be not less than the values as specified by the buyer.

- **3.2.4** Either of warp or weft of the cloth may be dyed to the shade as specified by the buyer. However, sulphur black dyes shall not be used. The dyed cloth shall conform to the colour fastness requirements of Table 2.
- **3.2.5** The cloth when visually examined should be reasonably free from spinning and weaving defects.

4 REQUIREMENTS

4.1 Construction

The cloth shall comply with the particulars given in Table 1.

4.2 Requirements

The cloth shall comply with the requirements given in Table 2.

5 SEALED SAMPLE

5.1 If, in order to illustrate or specify the indeterminable characteristics, such as general appearance, feel and shade of 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.

6 SAMPLING

6.1 Lot

The quantity of handloom buckram 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>.

Table 1 Particulars of Handloom Buckram Cloth

(*Clause* <u>4.1</u>)

Sl No.	Variety	Ends/dm	Picks/dm	Weight	Breakin	g Load	Length	Width
	No.			g/m ²	on 10 cm	× 20 cm	m	cm
					Strips			
					Warm	W. c		
					Warp	Weft		
					kg	kg		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
i)	1	212	166	230	175	30	12 or	72 or
ii)	2	174	102	270	115	180	as agreed	as agreed
iii)	3	174	94	270	135	145		
Í		(Double)						
iv)	4	174	126	320	145	200		
Tolerance,	_	± 5	± 5	± 5	- 5	- 5	_	
Percent								
Method of	_	IS 1	963	IS 1964	IS 1969	(Part 1)	IS 1	954
Test, Ref to								

Table 2 Requirements of Handloom Buckram Cloth

(Clauses 3.2.4 and 4.2)

Sl No.	Characteristic	Requirement	Method of Test, Ref to
(1)	(2)	(3)	(4)
i)	Scouring loss, percent	10 to 15	IS 1383
ii)	Relaxation shrinkage, percent, Max	2.5	IS 2977
iii)	Colour fastness to washing	4 or better	IS/ISO 105-C10

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

(*Clause* <u>6.3</u>)

SI 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

6.4 Number of Tests and Criteria for Conformity

Sl No.	Characteristic(s)	Number of Tests	Criteria for Conformity
(1)	(2)	(3)	(4)
i)	Visual inspection, ends, picks, length and width	According to co1 (3) of Table 3	Number of non-conforming pieces shall not exceed the corresponding number given in co1 (4) of <u>Table 3</u>
ii)	Relaxation shrinkage, weight, breaking load, colour fastness to washing, and scouring loss	According to co1 (5) of Table 3	All the pieces shall meet the requirement

7 MARKING

- **7.1** The cloth shall be marked with the following:
 - a) Name of the material;
 - b) Variety No.;
 - c) Width and length of piece;
 - d) Manufacturer's name, initials or trademark;
 - e) Month and year of manufacture;
 - f) Indication of the source of manufacture; and
 - g) Other declarations required as per law in force.

7.2 BIS Certification Marking

The product 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

The cloth shall be packed in bales or cases in conformity with the procedure laid down either in IS 293 or IS 1347.

ANNEX A

(Clause $\underline{2}$)

LIST OF REFERRED STANDARDS

IS No.	Title	IS No.	Title
IS/ISO 105-C10 : 2006	Textiles — Tests for colour fastness: Part C10 Colour fastness to washing with soap or soap and soda	IS 1964 : 2001	Textiles — Methods for determination of mass per unit length and mass per unit area of fabrics (second revision)
IS 293: 1980	Code for seaworthy packaging of cotton yarn and cloth (third revision)	IS 1969 (Part 1): 2018	Textiles — Tensile Properties of Fabrics Part 1
IS 1347 : 1972	Specification for inland packaging of cotton cloth and yarn (first revision)		Determination of Maximum force and Elongation at Maximum Force Using the Strip Method (fourth
IS 1383 : 2023	Methods for determination of scouring loss in grey and finished cotton textile materials (second revision)	IS 2977 : 1989	revision) Fabrics (other than wool) — Method for determination of dimensional changes on
IS 1954 : 2024/ ISO 22198 : 2006	Textiles — Fabrics — Determination of width and length (third revision)	IS 2522 (Day 2) .	soaking in water (first revision)
IS 1963 : 1981	Methods for determination of threads per unit length in woven fabrics (second revision)	IS 3522 (Part 3): 1983	Methods for estimation of common preservatives used in textile industry: part 3

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ANNEX B

(Foreword)

COMMITTEE COMPOSITION

Handloom and Khadi Sectional Committee, TXD 08

Representative(s)
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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

Haryana Khadi Gramodyog Sangh, Karnal Shri Pawan Garg

SHRI R. S. YADAV (Alternate)

ICAR – Central Institute for Research on Cotton DR SUJATA SAXENA

Technology, Mumbai (CIRCOT)

DR A.S.M. RAJA (Alternate)

Indian Institute of Handloom Technology, Jodhpur DR J. SIVAGNANAM

Indian Institute of Handloom Technology, Salem DR P. THENNARASU

Indian Institute of Handloom Technology, Varanasi DR AMIN HIRENBHAI NAVINBHAI

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Indian Institute of Technology, Delhi DR BIPIN KUMAR

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Indo Tibetan Border Police, New Delhi Shri Uttam Kumar

SHRI ANAND KUMAR (Alternate)

Jan Sewa Ashram, Aligarh Shri R. K. Sharma

SHRI AKHILESH KUMAR AWASTHI (Alternate)

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

 ${\tt SHRI\ PRINCE\ CHAUDHARY\ }(Alternate)$

Kshetriya Khadi Gramodyog Samiti, Dausa Shri R. K. Singh

Khadi and Village Industries Commission, Mumbai Shri Vijaysridhar

DR SENTIL KUMAR C. B. (Alternate)

Organization

Representative(s)

Madhya Bharat Khadi Sangh, Gwalior	SHRIMATI NEELU MEKLE
	SHRI HARISH MEKLE (Alternate)

Mahatma Gandhi Institute for Rural Shri Mahesh kumar Industrialization, Wardha Dr Tapan Ranjan Kar (Alternate)

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Ministries of Defence (DGQA), New Delhi
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Ministries of Health, New Delhi REPRESENTATIVE

National Handloom Development Corporation Ltd,
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Northern Railways, New Delhi
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Office of the Development Commissioner for Handlooms, New Delhi

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Rastriya Khadi Gramodyog Federation, Moradabad Shri Anil Kumar Singh Shri Kuldeep Singh (*Alternate*)

Swastik Gramodyog Samiti, Delhi SHRI M. L. PATHAK
SHRI ABHISHEK DIXIT (Alternate)

The Cotton Textiles Export Promotion Council (TEXPROCIL), Mumbai DR SIDDHARTHA RAJAGOPAL SHRI RAJESH SATAM (Alternate)

The Handloom Export Promotion Council, Chennai DR M. SUNDAR
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SHRI SWAPNIL
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Amendments Issued Since Publication

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