

भारतीय मानक ब्यूरो
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भारतीय मानक मसौदा

वस्त्रादि – हथकरघा सूती रुमाल – विशिष्ट

(आई एस 1939 का दूसरा पुनरीक्षण)

Draft Indian Standard

**TEXTILES — HANDLOOM COTTON HANDKERCHIEFS —
SPECIFICATION**

(Second Revision of IS 1939)

ICS 59.080.30

Handloom and khadi sectional committee,
TXD 08

Last date for receipt of comment is
11 May 2024

FOREWORD

(Formal clauses will be added later)

Handloom cotton handkerchiefs are small squares of fabric made using traditional weaving techniques. They are crafted from soft, absorbent cotton yarns, perfect for wiping your face or hands, especially in hot weather.

This standard was originally published in 1961 and subsequently revised in 1975. The standard has again been revised to incorporate the following changes:

- a) Marking clause has been modified;
- b) References to Indian Standards have been updated;

- c) Test method for identification of material has been incorporated; and
- d) Sampling plan has been incorporated.

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.

1 SCOPE

1.1 This standard prescribes the constructional particulars and other requirements of handloom cotton handkerchiefs, bleached, dyed, striped, checked or printed.

1.2 This standard does not specify the general appearance, feel, finish, etc of the handkerchief.

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 editions of the standards indicated in Annex A.

3 MANUFACTURE

3.1 Constructional Particulars

Constructional particulars shall conform to those given in Table 1. These are obtainable by using yarn conforming to IS 171.

Table 1 Constructional Particulars of Handloom Cotton Handkerchiefs
(Clause 3.1)

Sl No.	Variety No.	Count of Yarn		Ends/dm	Picks/dm
		Warp	Weft		
(1)	(2)	(3)	(4)	(5)	(6)
i)	1	20s (or 30 tex)	20s (or 30 tex)	170	170
ii)	2	30s (or 20 tex)	30s (or 20 tex)	190	190
iii)	3	30s (or 20 tex)	30s (or 20 tex)	220	220
iv)	4	40s (or 15 tex)	40s (or 15 tex)	170	170
v)	5	40s (or 15 tex)	40s (or 15 tex)	210	210
vi)	6	40s (or 15 tex)	40s (or 15 tex)	240	240
vii)	7	60s (or 10 tex)	60s (or 10 tex)	240	240
viii)	8	60s (or 10 tex)	60s (or 10 tex)	280	280
ix)	9	60s (or 10 tex)	60s (or 10 tex)	300	300

x)	10	80s (or 7.4 tex)	80s (or 7.4 tex)	250	250
xi)	11	80s (or 7.4 tex)	80s (or 7.4 tex)	280	280
xii)	12	80s (or 7.4 tex)	80s (or 7.4 tex)	320	320
xiii)	13	80s (or 7.4 tex)	80s (or 7.4 tex)	440	440
xiv)	14	100s (or 5.9 tex)	100s (or 5.9 tex)	320	320
xv)	15	100s (or 5.9 tex)	100s (or 5.9 tex)	350	350
xvi)	16	100s (or 5.9 tex)	100s (or 5.9 tex)	470	470
Tolerance, percent	—	± 5	± 5	± 5	± 5
Method of Test, Ref to	—	IS 1315		IS 1963	

4 REQUIREMENTS

4.1 Requirements of handkerchiefs shall conform to those given in Table 2.

Table 2 Requirements of Handloom Cotton Handkerchiefs
(Clause 4.1)

Sl No.	Characteristic	Requirement	Method of Test, Ref to
(1)	(2)	(3)	(4)
i)	Dimensional changes, percent, <i>Max</i>	2.5	IS 2977
ii)	Scouring loss, percent, <i>Max</i>	2.5	IS 1383
iii)	Colour fastness to: a) Light	4 or better	IS/ISO 105-B02 or IS/ISO 105-B01
	b) Washing	4 or better	IS/ISO 105-C10
iv)	Length × width, cm × cm Tolerance on: a) Length b) Width	38 × 38, 40 × 40, 44 × 44 or 46 × 46 - 2 percent - 2 percent	IS 1954
v)	Fiber identification	100 percent cotton	IS 667

5 INSPECTION

5.1 The handkerchiefs when visually inspected should be reasonably free from the following defects:

- a) Weft crack of more than 2 missing picks across the width of material;

- b) Prominent noticeable weft bar due to the difference in raw material, count, twist, lustre, colour, shade or pick spacing of adjacent groups of weft yarn;
- c) More than two adjacent ends running parallel, broken or missing and extending beyond 15 cm;
- d) Prominent selvedge defect;
- e) Noticeable warp or weft float in the body of the material;
- f) Noticeable oil or other stain in the material;
- g) Noticeable hole, cut or tear up to 3 mm in size in the body of the fabric;
- h) Conspicuous broken pattern;
- j) Prominently noticeable printing or dyeing defect;
- k) Smash definitely rupturing the texture of the material; and
- m) Extensive printing or dyeing defect.

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

6 SAMPLING

6.1 The quantity of handloom cotton handkerchiefs cloth of the same variety delivered to a buyer against a despatch not shall constitute a lot.

6.2 To ascertain the conformity of the lot to the requirements of this standard, samples 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 Table 3.

Table 3 Sample Size and Permissible Number of Non-Conforming Pieces
(Clause 6.3)

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 1200	20	1	5
v)	1201 to 10000	32	2	8
vi)	10001 to 35000	50	3	8
vii)	35001 to 500000	80	5	13
viii)	500001 and above	125	7	13

6.4 Number of Tests and Criterion for Conformity

SI No.	Characteristic(s)	No. of Tests	Criterion for Conformity
(1)	(2)	(3)	(4)
i)	Count, ends, picks, length and width	According to col (3) of Table 3	Permissible number of non-conforming piece does not exceed the corresponding number given in col (4) of Table 3
ii)	Colour fastness, dimensional changes, scouring loss, and fibre identification	According to col (5) of Table 3	All the test specimens meet the relevant requirements

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 trade-mark;
- c) Length and width;
- d) Count of warp and weft yarn;
- e) The words 'Fast Colour' in case of dyed and printed handkerchiefs;
- f) Indication of the source of manufacture; and
- g) 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 handkerchiefs shall preferably be packed in bales or cases in conformity with the procedure laid down either in IS 1347 or IS 293.

ANNEX A
(Clause 2)

LIST OF REFFERED STANDARDS

<i>IS No.</i>	<i>Title</i>
IS 171 : 1993	Textiles — Ring spun grey cotton yarn for weaving — Specification (<i>fourth revision</i>)
IS 293 : 1980	Code for seaworthy packaging of cotton yarn and cloth (<i>third revision</i>)
IS 667 : 1989	Methods for identification of textile fibres (<i>first revision</i>)
IS 1315 : 1977	Method for determination of linear density of yarns spun on cotton system (<i>first revision</i>)
IS 1347 : 1972	Specification for inland packaging of cotton cloth and yarn (<i>first revision</i>)
IS 1383 : 2023	Methods for determination of scouring loss in grey and finished cotton textile materials (<i>second revision</i>)
IS 1954 : 1990	Determination of length and width of woven fabrics — Methods (<i>second revision</i>)
IS 1963 : 1981	Methods for determination of threads per unit length in woven fabrics (<i>second revision</i>)
IS 2977 : 1989	Fabrics (other than wool) — Method for determination of dimensional changes on soaking in water (<i>first revision</i>)
IS 14466 : 1997/ ISO 8498 : 1990	Fabrics — Description of defects — Vocabulary
IS/ISO 105-B01 : 2014	Textiles — Tests for colour fastness — Part B01 Colour fastness to light: Daylight
IS/ISO 105-B02 : 2014	Textiles — Tests for colour fastness — Part B02 Colour fastness to artificial light: Xenon arc fading lamp test
IS/ISO 105-C10 : 2006	Textiles — Tests for colour fastness — Part C10 Colour fastness to washing with soap or soap and soda