## भारतीय मानक Indian Standard

# वस्त्रादि — हथकरघा सूती मद्रास रूमाल — विशिष्टि

IS 1093: 2024

(दूसरा पुनरीक्षण)

## Textiles — Handloom Cotton Madras Handkerchiefs — Specification

(Second Revision)

ICS 59.080.30

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भारतीय मानक ब्यूरो

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November 2024

**Price Group 5** 

## **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.

Handloom cotton madras handkerchiefs are used for wiping hands, faces, or noses.

This standard was first published in 1957 and subsequently revised in 1981. This revision has been brought out to incorporate the following changes:

- a) Test method for identification of material has been incorporated;
- b) Marking clause has been modified;
- c) Sampling clause has been modified; and
- d) References to standards have 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 COTTON MADRAS HANDKERCHIEFS — SPECIFICATION

(Second Revision)

#### 1 SCOPE

- **1.1** This standard prescribes the constructional particulars and other requirements of four varieties of handloom cotton Madras handkerchiefs.
- **1.2** This standard does not specify the general appearance, feel, finish, shade, etc of the cloth (see 4.3).

#### 2 REFERENCES

The standards listed in <u>Annex A</u> 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 be satisfactory in evenness and reasonably free from neps and spinning defects. The yarn shall conform to IS 171.

## **4 REQUIREMENTS**

- **4.1** The constructional particulars of the cloth shall conform to those given in <u>Table 1</u>.
- **4.2** The colour fastness ratings and other requirements of the cloth shall conform to those given in <u>Table 2</u>.
- **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**

5.1 The cloth when visually inspected shall be

reasonably free from the following defects:

- a) More than two adjacent ends running parallel, broken or missing and extending beyond 20 cm;
- b) Weft crack or more than two missing picks across the width of the material;
- c) Prominently noticeable weft bar due to the difference in raw material, count, twist, lustre; etc.
- d) Noticeable selvedge defects;
- e) Noticeable warp or weft float in the body;
- f) Noticeable oil or other stains;
- g) Noticeable hole, cut or tear of up to 3 mm size;
- h) Smash rupturing the texture of the fabric;
- Undressed snarls noticeable throughout the piece;
- k) Conspicuous gout due to foreign matter, usually lint or waste woven;
- m) Conspicuous broken pattern; and
- Any other flaw which would mar the appearance or affect the serviceability and/or durability of the cloth.

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

## **6 SAMPLING**

## **6.1** Lot

The quantity of handloom cotton madras handkerchiefs 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 Table 3.

## 6.4 Number of Tests and Criteria for Conformity

| Sl No. | Characteristic(s)  | No. of<br>Tests                        | Criteria for<br>Conformity   |
|--------|--|--|--|
| (1)    | (2)  | (3)                                    | (4)  |
| i)     | Visual inspection, weave, ends, picks, length and width                                    | According to col (3) of Table 3        | Number of non-conforming pieces not to exceed corresponding number given in col (4) of Table 3 |
| ii)    | Count of yarn, colour fastness, dimensional change, fibre identification and scouring loss | According to col (5) of <u>Table 3</u> | All the test<br>specimens to<br>meet the<br>corresponding<br>requirements                      |

the following information:

- Name of the material and variety number;
- Manufacturer's name, initials or trade-mark;
- Length and width of the cloth; c)
- Count of warp and weft yarn; d)
- Indication of the source of manufacture; and
- 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 in IS 1347 or IS 293.

## 7 MARKING

7.1 The cloth shall be suitably marked or labelled with

**Table 1 Constructional Particulars of Handloom Cotton Madras Handkerchiefs** 

(Clause 4.1)

| Sl No.                 | Variety<br>No. | Count of Yarn (see Note 1) |               | Ends/ | Picks/ | Length            | Width           | Weave  |
|------------------------|----------------|----------------------------|---------------|-------|--------|-------------------|-----------------|--------|
|                        |                | Warp                       | Weft          | cm    | cm     | m                 | cm              |        |
| (1)                    | (2)            | (3)                        | (4)           | (5)   | (6)    | (7)               | (8)             | (9)    |
| i)                     | 1              | 60 s (10 tex)              | 36 s (16 tex) | 30    | 34     | 7                 | 91              |        |
| ii)                    | 2              | 60 s (10 tex)              | 36 s (16 tex) | 32    | 38     | or as<br>declared | or as<br>agreed | Plain  |
| iii)                   | 3              | 60 s (10 tex)              | 40 s (15 tex) | 30    | 40     |                   |                 |        |
| iv)                    | 4              | 60 s (10 tex)              | 40 s (15 tex) | 36    | 44     |                   |                 |        |
| Tolerance,<br>Percent  | _              | ± 5                        | ± 5           | ± 5   | ± 5    | see<br>Note 2     | ± 2             | _      |
| Method of Test, Ref to | _              | IS 3                       | 3442          | IS    | 1963   | IS 19             | 954             | Visual |

- 1 Count of yarn is given for guidance only.
- 2 The length shall be not less than the declared or marked value.

**Table 2 Requirements of Handloom Cotton Madras Handkerchiefs** 

(*Clause* <u>4.2</u>)

| Sl No. | Characteristic  | Requirement                          | Method of Test, Ref to              |  |
|--------|---|--------------------------------------|-------------------------------------|--|
| (1)    | (2)   | (3)                                  | (4)                                 |  |
| i)     | Colour fastness to:   |                                      |                                     |  |
|        | a) Light  | 4 or better (see Note)               | IS/ISO 105-B02                      |  |
|        | b) Washing Test 1   | 4 or better                          | IS/ISO 105-C10                      |  |
| ii)    | Dimensional change, percent, Max                            | 4                                    | IS 2977                             |  |
| iii)   | Scouring loss, percent, Max                                 | 10                                   | IS 1383                             |  |
| iv)    | Fibre identification  | 100 percent cotton                   | IS 667                              |  |
| NOTE   | — The rating specified is in accordance with IS 6906, which | ch is the basic document on colour f | astness ratings to various agencies |  |

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

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

| Sl No. | Lot Size<br>(No. of Pieces) | Sample Size | Permissible<br>Number<br>of Non-<br>Conforming<br>Piece | Sub Sample<br>Size |
|--------|-----------------------------|-------------|---|--------------------|
| (1)    | (2)                         | (3)         | (4)   | (5)                |
| i)     | (2)<br>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

(*Clause* <u>2</u>)

## LIST OF REFERRED STANDARDS

| IS No.                | Title  | IS No.                                 | Title  |
|-----------------------|--|--|--|
| IS/ISO 105-B02 : 2014 | Textiles — Tests for colour fastness:<br>Part B02 Colour fastness to artificial<br>light: Xenon arc fading lamp test | IS 1954 : 2024/<br>ISO 22198 :<br>2006 | Textiles — Fabrics — Determination of width and length (third revision)  |
| IS/ISO 105-C10: 2006  | Textiles — Tests for colour fastness:<br>Part C10 Colour fastness to washing<br>with soap or soap and soda           | IS 1963 : 1981                         | Methods for determination of threads per unit length in woven fabrics (second revision)                          |
| IS 171 : 1993         | Textiles — Ring spun grey cotton yarn for weaving — Specification (fourth revision)                                  | IS 2977 : 1989                         | Fabrics (other than wool) — Method for determination of dimensional changes on soaking in water (first revision) |
| IS 293: 1980          | Code for seaworthy packaging of cotton yarn and cloth (third revision)   | IS 3442 : 2023                         | Textiles method for determination of crimp and linear density of yarn removed from fabric (second                |
| IS 667 : 1981         | Methods for identification of textile fibres (first revision)  |  | revision)  |
| IS 1347 : 1972        | Specification for inland packaging of cotton cloth and yarn (first revision)   | IS 14466 : 1997/<br>ISO 8498 :<br>1990 | Fabrics — Description of defects — Vocabulary  |
| IS 1383 : 2023        | Methods for determination of scouring loss in grey and finished cotton textile materials (second revision)           |  |  |

## 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)

Center of Excellence for Khadi (COEK) - NIFT, REPRESENTATIVE

New Delhi

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

SHRI RISHABH SRIVASTAV (Alternate)

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

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Khadi and Village Industries Commission, Mumbai Shri Vijaysridhar

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

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Organization

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Kshetriya Khadi Gramodyog Samiti, Dausa

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Northern Railways, New Delhi

Office of the Development Commissioner for Handlooms, New Delhi

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Rastriya Khadi Gramodyog Federation, Moradabad

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This Indian Standard has been developed from Doc No.: TXD 08 (23969).

## **Amendments Issued Since Publication**

| Amend No. | Date of Issue | Text Affected |  |
|-----------|---------------|---------------|--|
|           |               |               |  |
|           |               |               |  |
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