

भारतीय मानक ब्यूरो

भारतीय मानक का संशोधन मसौदा

IS 18739 : 2024 वस्त्रादि — चादर तकिया कवर और रजाई कवर — विशिष्टि  
संशोधन - १

**BUREAU OF INDIAN STANDARDS**

*Draft Amendment to Indian Standard*

**AMENDMENT NO. 1**

**TO**

**IS 18739 : 2024 TEXTILES — BEDSHEETS PILLOW COVER AND BLANKET COVER  
— SPECIFICATION**

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Last date for receipt of comment is  
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(Foreword, Paragraph 3) – Substitute ‘Annex E’ for ‘Annex D’.

(Page 1, clause 3.8) – Substitute the following for existing:

‘The soil release efficiency after 50 cycles of washing and drying shall be Grade 3, *Min* when tested as per method prescribed in Annex C.’

(Page 2, clause 3.10, line 5) – Substitute ‘Annex D’ for ‘Annex J of IS 17263’.

(Page 8, Annex C, clause C-5.1) – Substitute the following for existing:

‘**C-5.1** Subject the specimens to washing as per procedure specified in 9 of IS 15370 using washing machine as specified in 5.1.1 of IS 15370 and reference detergent specified in 6.1.3 of IS 15370 and followed by drying as per 10.4 of IS 15370 using the dryer specified in 5.2.1 of IS 15370. Wash and dry the specimen 50 times before finally removing from the dryer.’

(Page 9, Annex C) – Insert the following Annex D after Annex C and renumber the subsequent Annex:

**‘Annex D**  
(Clause 3.10)

**DETERMINATION OF WHITENESS INDEX**

## **D-1 PRINCIPLE**

Samples of fabric are tested for colour using a colorimeter instrument measuring the 'L' (total reflectance), 'a' (red-green), 'b' (yellow-blue) and 'W' (whiteness) values of the fabric sample.

## **D-2 APPARATUS**

- a) Colorimeter instrument;
- b) Standard tiles (white, and black) with the instruments;
- c) Working standard white square plate;

## **D-3 SAFETY**

The activity involves probable injury due to breaking of glass. Carry out risk assessment and take control measures prior to starting the job.

## **D-4 PROCEDURE**

**D-4.1** Clean the working standard tile with tissue paper prior to use. It shall be performed before reading each set of samples. Place tile on sample port, care shall be taken to avoid touching the surface which could change the reading. Compare the obtained L, a and b values, with standard readings. If the values are not matching, then calibrate the instrument as per instrument manual.

**D-4.2** Place sample in the sample port. After that, record the L, a and b values from the instrument. Remove the sample, reverse the sample, and place the sample again in the sample port and repeat the above procedure. Report the results of L, a and b values as average of the two sets.

## **D-5 CALCULATION**

Calculate whiteness index (WI) of the sample by the formula:

$$WI = L - 3b + 3a$$

Whiteness Index (WI) is also directly obtained from the colorimeter instrument.'