



IS 187: 2022- Textiles - Cotton Long Cloth -Specification (third revision)

Cotton Long cloth refers to a plain cotton cloth originally made in comparatively long pieces. It is a type of woven fabric made primarily from cotton fibres, typically used for various textile applications, including underclothing, shirts, sheets and household items and other textiles that require durability and comfort. It is characterized by its relatively fine weave and smooth texture compared to basic cotton cloth. It has two varieties, namely, Variety 1 and Variety 2. Variety 1 is based on IND/TC/0023 Long cloth, white or khaki, issued by the Ministry of Defence, Government of India.

The standard has the following key performance requirements:

1. **Constructional Particulars of Long Cloth:**
 - i) Approximate Count of Yarn, i.e., Warp & Weft.
 - ii) Ends per cm (i.e., density of warp yarns)
 - iii) Picks per cm (i.e., density of weft yarns)
 - iv) Mass (g/m²)
 - v) Breaking Strength on 5 × 20 cm Strip
 - vi) Dimensions
 - vii) Weave (Visual Test)
2. **Chemical Requirements of Cotton Fabrics for Long Cloth:**
 - i) Colour fastness to light (For Dyed fabrics only)
 - ii) Colour fastness to washing (For Dyed fabrics only)
 - iii) Scouring loss (i.e., loss of weight during scouring process of textile manufacturing)
 - iv) pH value
 - v) Shrinkage or Elongation
 - vi) Residual starch
 - vii) Water solubles (For Bleached cloth only)
 - viii) Ash content
 - ix) Blend composition (For Blended fabrics only)

Packing clause mentions requirements for the cloth to be packed in bales or cases in conformity with the procedure laid down in IS 1347 (IS for inland packaging of cotton cloth and yarn) or in IS 293 (IS for seaworthy packaging of cotton yarn and cloth), as required. The standard ensures consistency, quality, and uniformity in the production of cotton long cloth, and they help manufacturers and users assess the suitability of the fabric for specific applications.