



**IS 177 : 1989**

## **COTTON DRILLS**

Cotton drills are a type of fabric made from cotton fibers, known for their durability and versatility. They are characterized by a diagonal ribbed texture, achieved through a specific weaving technique. Here are some key points about cotton drills:

### **Key Features:**

1. **Material:** Made from 100% cotton, cotton drills are breathable and comfortable, making them suitable for various clothing applications.
2. **Weave:** The twill weave gives the fabric a distinctive diagonal pattern, enhancing its strength and resistance to wear.
3. **Uses:** Commonly used in the production of workwear, uniforms, and casual clothing. They are also popular for home textiles like curtains and upholstery.
4. **Durability:** Known for their durability, cotton drills can withstand heavy use and are less prone to tearing compared to plain weaves.
5. **Care:** Generally easy to care for, they can be machine washed and are less likely to wrinkle.

### **About the standard IS 177:1989**

IS 177 : 1989 is the Indian Standard that outlines specifications for the testing and classification of cotton yarns. This standard is essential for ensuring the quality and performance of cotton yarn used in various textile applications.

### **Key Features of the standard :**

The standard applies to cotton yarns ( **grey, scoured, bleached or dyed**), Variety 1,2,3,4 detailing requirements for classification based on parameters such as count, strength, physical and chemical properties.

1. **Testing Methods:** It specifies standardized testing methods for assessing yarn properties, including tensile strength, count, ends, picks, mass, twist, dimensions, color fastness and evenness, ensuring consistency and reliability in quality.
2. **Classification Criteria:** Provides guidelines for categorizing cotton yarns, which aids manufacturers and consumers in selecting the right type for specific applications.

3. **Quality Assurance:** Emphasizes the importance of maintaining high-quality standards in cotton yarn production to meet industry demands.

IS 177:1989 serves as a crucial reference in the cotton textile industry, promoting quality control and consistency in cotton yarn production, thereby supporting manufacturers and consumers alike in making informed choices. Cotton drills are a practical choice for various applications due to their strength, comfort, and aesthetic appeal. Their unique texture and durability make them a favored fabric in both fashion and functional uses.