

Research Paper :

Quality evaluation of textile fabric with special reference to cotton

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ABSTRACT

Fabric is the basic needs of human life and selection of these fabrics is an important task in per modern requirements. There are various factors which differentiate the fabric quality. The manufacturing of apparels is based on the fabric quality. Because the consumer demands good quality products always, by keeping their demands in mind the fabric needs to with certain quality standard's which are internationally accepted.

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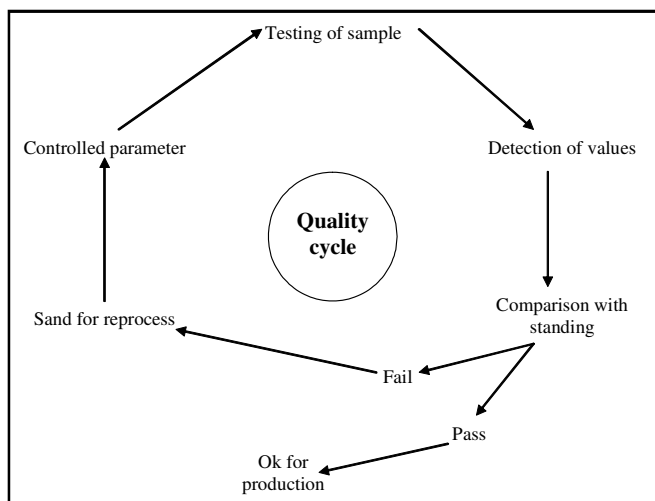
Testing of textiles provides valuable aid to those engaged in the production, distribution and consumption of textiles. Instruments and techniques are used effectively but testing instrument cannot make decisions and at the end, some person has to interpret and analyze the data available. The type of textile testing instruments available is large (Booth, 1996). Many of them are simple in principle and have been used by the textile industry for a long time (Anonymous, 2000). Some important instruments are relatively new, as also are commercial models or equipment developed in research laboratories. Electronic evenness testers and instruments based on air flow principles are typical examples of the latter. The choice of instruments and the testing techniques employed will be governed largely by the information required as well as by how accurate and detailed that information has to be.

It has been said that the subject of textile testing can be covered by answering the 'w' questions.

- Why do we test?
- What do we test?
- When do we test?
- Who does the test?

What is the quality? -

A Harvard expert on quality, there are eight dimensions of quality, performance, features, reliability, conformance, durability, serviceability, aesthetics and perceived quality.



EXPERIMENTAL PROCEDURE

The investigators have selected the same fabric (100% cotton) quality, which has the same physical structure and are similar in yarn use.

The variations are in colour and print:

- Plain cotton fabric (A)
- Coloured cotton fabric (B)
- Printed cotton fabric (C)

Selection method:

Experimental design:

Steps of the experiment:

- Standardization
- Standardization of number of samples