

WORSTED FABRIC VARIOUS ✓

This documents list out the essential plant and machinery requirement of worsted fabric various. This documents also list out the essential test equipment requirement of worsted fabric various.

Essential Plant & machinery Requirement for spinning:-

1. Worsted Combing machine from wool top stage(Re-combing)
2. Set of Gill Boxes (Min. 05 Nos.)
3. Roving Frame
4. Ring Spinning machine (For Worsted Yarn)
5. Cone winding machine with Splicing arrangement for Electronically Cleared Yarn (Like Autoconer or equivalent)
6. Parallel Winding Machine
7. TFO
8. Steam Chamber/ Autoclave

Note:-

In addition to above, controlled atmosphere of production shop for Humidity & Temperature is an essential requirement.

Essential Plant & Machinery Requirement for Weaving:-

1. High Speed Warping machine
2. Shuttle less looms with Dobby attachment to weave firms name or trademark along selvedge.

Note:-

Controlled atmosphere of Production Shop for humidity & temperatures is an essential requirement.

Essential Plant and Machinery Requirement for Processing:-**A. Fibre Dyeing**

1. High temperature High Pressure Top Dyeing Plant (HTHP)
2. Hydro Extractor
3. Radio Frequency Drier (RF Dryer)

B. Finishing

1. Perching Machine
2. Milling M/c (for Serge Battle Dress)
3. Scouring Machine
4. Drying Machine or Hydro extractor
5. Singeing Machine
6. Shearing and cropping machine (Where ever applicable)
7. Stenter
8. Chemical treatment (Water Repellent finish) (for Serge Battle Dress)
9. Decatizing Machine
10. Rotary Press
11. Final Perching with roll making machine

Essential Test Equipments:-

1. Conditioning Chamber for humidity and temperature
2. Pick Glass/Counter for ends/picks measurement
3. Weighing Balance
4. Tensile Strength testing machine
5. Template for Shrinkage test
6. Projection Microscope
7. Twist tester
8. Measuring scale/Measuring tape
9. pH Meter
10. Bundesman Water repellency tester (For Water repellent treated fabrics)
11. Scouring loss test apparatus (Soxhlet apparatus, oven and glassware)
12. Crock meter

16. Spectrophotometer (wherever applicable) for LCH and Delta values.
17. Yarn Evenness Tester
18. Light Fastness Tester*

Note:-

1. *If the firm does not have light fastener tester, the firm should have arrangement with NABL accredited lab for Dye fastness to Light for which a letter from NABL accredited lab should be issued to the firm that they are undertaking testing of samples from the firm.
2. The above list of test equipment is illustrative in nature which may or may not be relevant for certain type of fabric. Therefore at the time of capacity verification, the requirement of test equipment may be verified in accordance with test parameters in the specification and test equipment shall have required range to test the required parameters.
3. The firm should have valid composite mill certificate for all the three processes viz. Spinning, Weaving and Processing issued by Textile Commissioner, Mumbai. In case of expiry of certificate, copy of application for renewal should be provided.