

Importance of Pre-treatment

- Pre-treatment have same importance as coloration and finishing of textile materials, about 60%-70% faults that appears in processing unit are due to inadequate pre-treatment process.
- Textile Pre-treatment, consider to be a series of cleaning operations starting from the raw state of fiber, and lays the foundation for the quality in textile processing.

Objectives of Pretreatment

- The main objective of textiles Pre-treatment is to produce a clean and absorbent cloth or to pass the textile materials by standard procedure; so that, it may brought to the state; which can be dyed or printed and finished with out any hurdle and displaying any kind of faults.
 1. Projecting fibers
 2. Natural impurities (Fats, natural pigments, mineral substances and seed particles).
 3. Artificial impurities (Sizes, mineral oils, fungus, rust and coloring materials).

PRE-TREATMENTS PROCESS FLOW

SINGEING/SHEARING

DE-SIZING

SCOURING

BLEACHING

MERCERIZATION

Summary of Pre-treatments Process

Stage	Objective	Types of Process
Singeing/ Shearing	Removal of Projecting fiber.	By burning or by cutting
De-sizing	Removal of starches.	By Extraction
Scouring	Removal of Natural & artificial impurities.	By Extraction
Bleaching	To provide whiteness.	By oxidizing
Mercerization	To provide luster and increase absorbency.	By Swelling