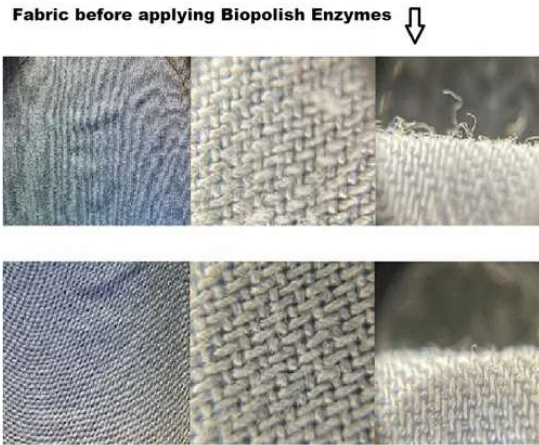


# BIO-POLISHING

Bio-polishing is a process used in textile manufacturing to improve the fabric's surface properties, such as softness, luster, and appearance. It involves treating fabrics with enzymes to remove protruding fibers and fuzz, resulting in a smoother surface. This process can be



Fabric after applying Biopolish Enzymes ↑

particularly beneficial for cotton fabrics, as it helps to reduce pilling and enhances the fabric's

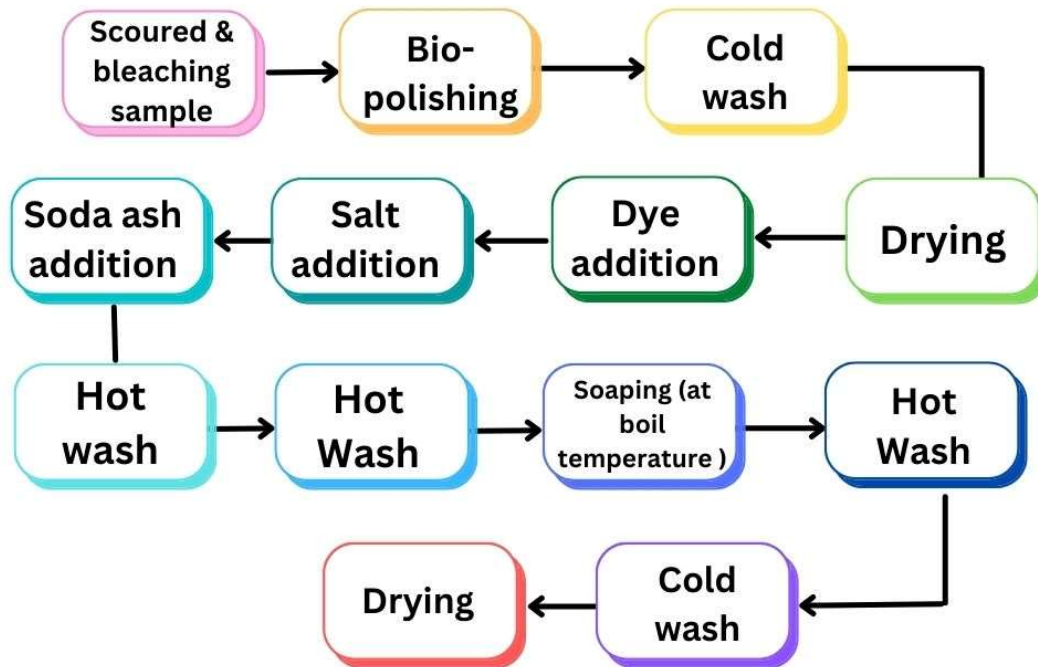


Normal cotton fabric      Polished cotton fabric

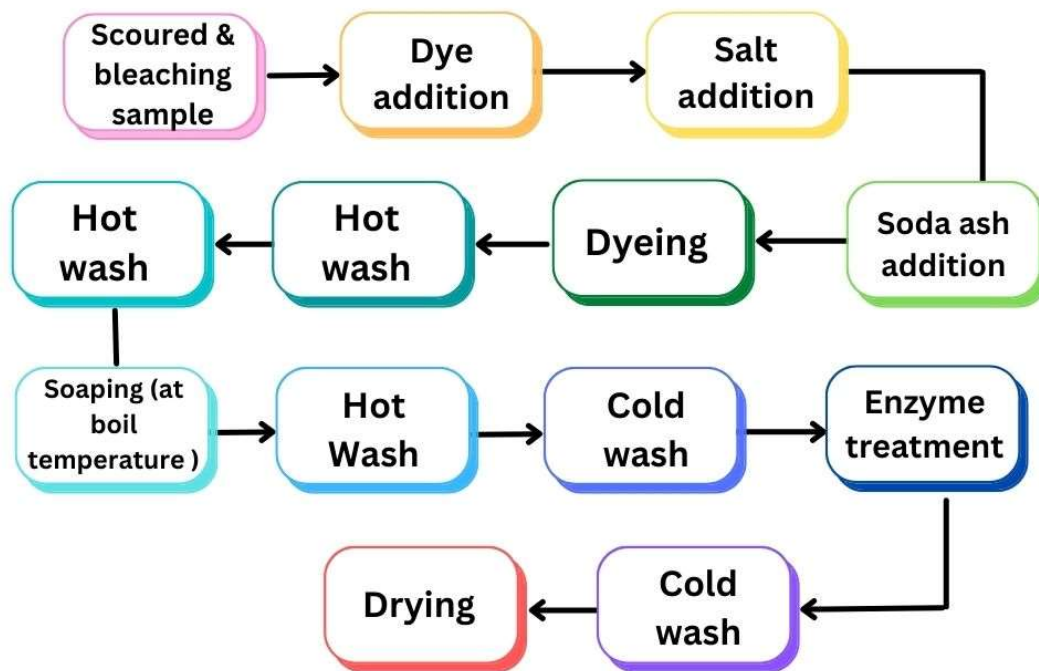
overall feel and appearance. Bio-polishing is considered an eco-friendly alternative to traditional chemical treatments because it uses

enzymes derived from natural sources, such as bacteria or fungi, to achieve the desired effects.

## Bio - polishing before Dyeing



# Bio-polishing after Dyeing



The main objectives of Bio-Polishing are:

- **Improving Fabric Softness:** One of the primary goals of bio-polishing is to enhance the softness of textiles. By removing protruding fibers and surface fuzz, the fabric feels smoother and more comfortable against the skin.
- **Enhancing Fabric Luster:** Bio-polishing can also improve the luster or shine of the fabric, giving it a more appealing appearance.
- **Reducing Pilling:** Pilling occurs when fibers on the fabric surface become entangled and form small balls or pills. Bio-polishing helps to reduce pilling by removing these loose fibers, resulting in a smoother surface that is less prone to pilling.
- **Improving Dyeing and Printing:** A smoother fabric surface achieved through bio-polishing can lead to better dye penetration and more uniform printing results, improving the overall quality of dyed and printed textiles.

- **Increasing Fabric Absorbency:** Bio-polishing can enhance the absorbency of textiles by opening up the fabric structure and removing any surface impurities that may inhibit moisture absorption.

- **Environmental Sustainability:** Bio-polishing is considered more environmentally friendly than traditional chemical treatments because it utilizes enzymes derived from natural sources, such as bacteria or fungi, reducing the reliance on harsh chemicals and minimizing environmental impact.

Overall, the objectives of bio-polishing are to improve the quality, comfort, and sustainability of textiles while also enhancing their aesthetic appeal.