

Self - Cleaning Fabrics

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Introduction

Self-cleaning clothes are designed with the help of nanotechnology and chemical finishes.

The concept to keep the surface clean has arrived from the lotus leaves that have the wicking properties; which subsequently helped to develop water and dirt resistant finishes.

Using nanotechnology as well, fabric has been developed which keeps the surface clean.



Nanotechnology Coating

In nanotechnology, titanium dioxide particles are coated over the fabric. This when exposed to light, breaks down the impurities like dirt etc.

And micro-organisms into carbon dioxide and oxygen making the surface clean.

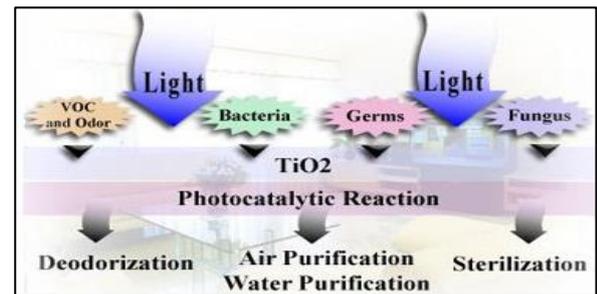


Fig. 1.1 Photo catalytic Technique of coating

Summary

Self-cleaning garments and fabrics retain the original texture and feel of the fabric.

These clothes can be used in medical, sports, defense, and home textiles widely. This environmentally friendly solution can help saving lot of water and energy by preventing frequent wash. Today, there are textiles that repel wine and coffee stains as well.

Wishing you a great week ahead!

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