

# Cleaning Guide

Pattern: **Harmony-X**  
AC#: **33370X - 33376X**  
Content: **96% Polyester, 4% X-STATIC® Silver Antimicrobial Fiber**  
Bleach Cleanable: **May be cleaned with bleach following the proper ratio of 90% water : 10% bleach.**



## General Cleaning Recommendation:

- Load Fabric into washer (Do Not Overload).
- Use the usual hospital protocol (rinse, drain, etc.), for washing cubicles and note maximum temperature of 200°F
- Detergent with a maximum pH not to exceed 12.
- Oxidative bleaching agents should not be used as these will damage X-Static silver antimicrobial fiber. These include sodium, hypochlorite, hydrogen peroxide, and per(oxy)acetic acid (PAA).
- A thorough rinse is essential to remove traces of surfactant, as residual detergent will adversely affect the X-Static silver antimicrobial.
- Do not overload washer or dryer.
- Fabric softeners should not be used.
- Always ensure that the fabric is thoroughly dried with heat. The dryer exhaust temperature should not exceed 200°F.
- Washers and dryers should be inspected regularly to ensure there are no rough spots that could damage the fabric.
- As is the usual procedure with laundering synthetic cubicle curtains, after the dry cycle is complete, curtains should be quickly removed to avoid over exposure to the heated drying cam.
- Silver is a natural element and may tarnish. This does not affect the biocidal properties of the material.
- Always process one single cubicle first before processing bulk cubicles. A thorough examination & evaluation of the test cubicle should be reviewed to make sure that the proper results are attained.

## List of Incompatible Chemicals for Use With X-Static Silver Antimicrobial Fiber

The Table below contains a general list of chemicals that are incompatible for use with X-Static filament or staple fibers. While this list is not comprehensive, it does reference the most common chemicals used in processing, dyeing, finishing and laundering that are incompatible with the X-Static technology.

| Incompatible Chemicals                  | Effect on X-Static Silver Antimicrobial Fiber                   | Impact on End-Use Requirement                                                                                                                                                                                                                                                                | Recommended Substitutes                                                                                                                                                            |
|-----------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sulfur Powder                           | Sulfur degrades X-Static                                        | <ul style="list-style-type: none"> <li>Potential issue with consistency of color, luster</li> <li>Potential issue with reduction in thermal and electrical properties</li> </ul>                                                                                                             | <ul style="list-style-type: none"> <li>Non-sulfur powder-containing chemicals</li> <li>Non-sulfur-containing atmosphere (that is, away from high vehicle exhaust areas)</li> </ul> |
| Ammonium Sulfide                        | Sulfur containing compounds degrade X-Static                    | <ul style="list-style-type: none"> <li>Potential issue with consistency of color, luster</li> <li>Potential issue with reduction in thermal and electrical properties</li> </ul>                                                                                                             | <ul style="list-style-type: none"> <li>Non-ammonium sulfide-containing chemicals</li> </ul>                                                                                        |
| Sodium Hypochlorite (Household Bleach)  | Sodium hypochlorite degrades X-Static                           | <ul style="list-style-type: none"> <li>Potential issue with consistency of color, luster</li> <li>Potential issue with reduction in thermal and electrical properties</li> </ul>                                                                                                             | <ul style="list-style-type: none"> <li>Non hypochlorite-containing cleaning agents</li> </ul>                                                                                      |
| Chlorine Gas                            | Chlorine degrades X-Static                                      | <ul style="list-style-type: none"> <li>Potential issue with consistency of color, luster</li> <li>Potential issue with reduction in thermal and electrical properties</li> </ul>                                                                                                             | <ul style="list-style-type: none"> <li>Non-hypochlorite-containing cleaning agents</li> </ul>                                                                                      |
| All Strong Acids                        | Strong acids degrade, dissolve and oxidize X-Static             | <ul style="list-style-type: none"> <li>Potential issue with consistency of color, luster</li> <li>Potential issue with reduction in thermal and electrical properties</li> </ul>                                                                                                             | <ul style="list-style-type: none"> <li>Alternate process that does not expose X-Static to strong acids</li> </ul>                                                                  |
| Strong Oxidizing Agents                 | Strong oxidizing agents, degrade, dissolve and oxidize X-Static | <ul style="list-style-type: none"> <li>Potential issue with consistency of color, luster</li> <li>Potential issue with reduction in thermal and electrical properties</li> </ul>                                                                                                             | <ul style="list-style-type: none"> <li>Alternate process that does not expose X-Static to strong oxidizing agents</li> </ul>                                                       |
| Sodium Silicate                         | Sodium Silicate reacts with X-Static                            | <ul style="list-style-type: none"> <li>Visual color change</li> <li>Deposits of orange yellow precipitate of silver silicate on substrate</li> </ul>                                                                                                                                         | <ul style="list-style-type: none"> <li>Magnesium salts of ethylenediamine tetracetic acid (EDTA) and tetrasodium pyrophosphate (TSPP)</li> </ul>                                   |
| Sodium Hydrosulfite (Sodium Dithionite) | Degrades X-Static and effects overall hue of fabric             | <ul style="list-style-type: none"> <li>Potential issue with consistency of color, luster</li> <li>Potential "tea stains" on finished fabric</li> <li>Potential uniform change in hue (towards brown)</li> <li>Potential issue with reduction in thermal and electrical properties</li> </ul> | <ul style="list-style-type: none"> <li>Non hydrosulfite reducing agents such as isopropyl alcohol</li> </ul>                                                                       |

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