

Gabriel internal test report for bleach cleanability

Test performed:	17 July 2023
Test:	BIFMA HCF 8.1-2019 Health Care Furniture design guidelines or cleanability & ACT Test Method 1-2020
Bleach concentration:	1:10 Sodium Hypochlorite 5.25 – 6.25 %
Product tested:	Step Screen – 100% Trevira CS

Gabriel tests all polyester fabrics, and tests include all colour options for each fabric. Tests are conducted in accordance with BIFMA's and ACT's recommended cleanability guidelines for use of cleaners, sanitizers and disinfectants on fabrics in hospitals and health care settings. The test result for each colour includes an assessment of the risk for colour change, when bleach is applied to the fabric in the concentrations required in health care environments.

When choosing a bleach-cleanable product, it is important to be aware that a variety of test methods to evaluate bleach resistance exist. Consequently, we recommend that you always ensure that the test method applied to a specific fabric meets the requirements - in terms of bleach concentration, application and contact time - for the specific context and environment in which the fabric will be used.

The test method applied by Gabriel is extremely thorough, and we consider it to be the best test available to assess and inform about the risk for colour change when using chlorine products.

Test description

1 ml of hospital grade disinfectant cleaner - diluted in accordance with the manufacturer's instructions - is applied to the center of the test specimen. The solution is allowed to set for a period of two hours, after which any remaining liquids are blotted up (on both face and back).

The process is repeated for a total of ten times. Two hours after the 10th application, three ml of water are applied, excess fluids are blotted up with a clean white cloth, and the test specimen is allowed to air dry. The last step is repeated if chemical residue remains.

The material is evaluated by comparing the test specimen with AATCC Grey Scale for Color change.

Rating system – Grades according to AATCC Grey scale

Grade 5 – Very good-excellent

Grade 4 – Good

Grade 3 – Fair-moderate

Grade 2 – Poor behaviour

Grade 1 – Very poor

Acceptance criteria according ACT/BIFMA.

Colour Change: Grade 4 minimum

Colour Transfer: Not permitted

Physical damage: Not permitted

Fabric	Colour	Name	Risk for colour changes*	Result
Step Screen	68461	Dark Green	High	2-3
Step Screen	68418	Light Green	High	3
Step Screen	60411	Grey	High	2
Step Screen	68419	Green	High	2-3
Step Screen	60404	Light Grey	High	2
Step Screen	66419	Blue Grey	High	2
Step Screen	61449	Beige	High	2-3
Step Screen	67404	Light Blue Green	High	3
Step Screen	63412	Dark Orange	High	3
Step Screen	64470	Dark Red	High	2-3
Step Screen	66463	Blue	High	2
Step Screen	67435	Turquoise	High	3
Step Screen	68499	Light Green	High	2-3
Step Screen	68401	Yellow Green	High	2-3
Step Screen	64467	Light Red	High	2-3
Step Screen	62446	Yellow	High	2
Step Screen	62444	Light Yellow	High	3
Step Screen	61487	Light Beige	High	3
Step Screen	60445	Light Grey	Medium	3-4
Step Screen	63436	Light Orange	High	3
Step Screen	63439	Orange	High	2-3
Step Screen	61491	Brown	High	2-3
Step Screen	62443	Light Orange	High	3
Step Screen	66465	Dark Blue	High	2-3

*) Low risk = Grade 4-5; Medium risk = Grade 3-4; High risk = Grade 3 and below

Gabriel A/S confirms that the above results were obtained after testing the specimen in accordance with the procedures and equipment specified above.

Gabriel A/S


 Kurt Nedergaard
 Director of CSR & Quality