

Gabriel internal test report for bleach cleanability

Test performed:	24 September 2021
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:	6500 Athlon / 6501 Athlon Plus

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, sanitisers 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 centre 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
Athlon/Athlon Plus	64247	Dark Red	Low	4-5
Athlon/Athlon Plus	65136	Dark Violet	Low	4-5
Athlon/Athlon Plus	66140	Dark Blue	Low	4-5
Athlon/Athlon Plus	67121	Türquise	Low	4-5
Athlon/Athlon Plus	60900	Black	Low	4
Athlon/Athlon Plus	61246	Dark Grey Brown	Low	4
Athlon/Athlon Plus	64246	Red	Low	4
Athlon/Athlon Plus	65135	Violet	Low	4
Athlon/Athlon Plus	66229	Dark Blue	Low	4
Athlon/Athlon Plus	68252	Light Yellow Green	Low	4
Athlon/Athlon Plus	68254	Dark Yellow Green	Low	4
Athlon/Athlon Plus	68256	Dark Green	Low	4
Athlon/Athlon Plus	60141	Dark Grey	Medium	3-4
Athlon/Athlon Plus	61140	Dark Brown	Medium	3-4
Athlon/Athlon Plus	64221	Red	Medium	3-4
Athlon/Athlon Plus	65118	Red Purple	Medium	3-4
Athlon/Athlon Plus	65134	Purple	Medium	3-4
Athlon/Athlon Plus	66226	Dark Blue	Medium	3-4
Athlon/Athlon Plus	66227	Blue	Medium	3-4
Athlon/Athlon Plus	66228	Blue	Medium	3-4
Athlon/Athlon Plus	68169	Green	Medium	3-4
Athlon/Athlon Plus	60167	Grey	High	3
Athlon/Athlon Plus	61194	Light Brown	High	3
Athlon/Athlon Plus	66225	Blue	High	3
Athlon/Athlon Plus	67120	Türquise	High	3
Athlon/Athlon Plus	68251	Brown Green	High	3
Athlon/Athlon Plus	68253	Yellow Green	High	3
Athlon/Athlon Plus	68255	Light Green	High	3
Athlon/Athlon Plus	60140	Light Grey	High	2-3
Athlon/Athlon Plus	63115	Orange	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



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