

TEST REPORT High Performance Mop

Test item: ISO standard: Report no.: Test date: Issue date: Bacteria pick-up rate (microorganisms) 6330:2021 DL-20230713-10 05.06.2023 13.07.2023

High Performance Mop



FX-25-80 FX-30-95 FX-40-110 FX-60-145

For test result please see next page

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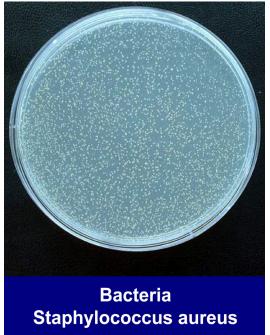
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TEST RESULT High Performance Mop

Pick-up rate (%)	Before washing: 99.9% After washing (300 times): 98.9%	
Test bacteria	Staphylococcus aureus ATCC 6538 (microorganisms). Exists in e.g. kitchens, on kitchen utensils, in foodstuffs and dairy products. Causes: vomit, food poisoning and diarrhea.	
Art. no.	FX-25-80, FX-30-95, FX-40-110, FX-60-145	

Before wipe:



After wipe:



Bacteria Staphylococcus aureus

Calculation of the cloth's capacity to pick up bacteria and microorganisms:

Pick-up r	ate = $[(M_{b} - M_{c}) / M_{b}] \times 100$
M _b = Avera	age of the number of bacteria on the test surface before pick-up.
(The	amount of bacteria which was spread on the surface)
M _c = Avera	age of the number of bacteria on the test surface after pick-up.
(The	e amount of bacteria on the surface after the wipe)

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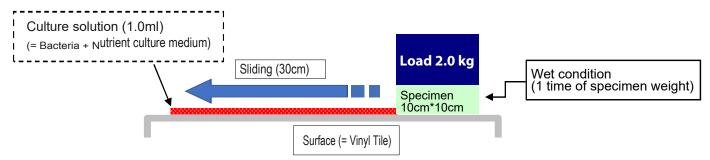
TEST METHOD High Performance Mop



Test conditions:

Amount of water	1 time of specimen weight
Load weight	2 kg
Surface	Vinyl tile (wax coated)
Sliding range	30 cm
Washing condition	Industry washing machine, 90 °C Alkali detergent Washing times: 300 times

Illustration of the test method:



CONCLUSION

High Performance Mop has a documented pickup of microorganisms of min. 98.9%.

The test result is based on test with bacteria within the group of microorganisms, where viruses also are included as a part of this group because of their sizes.

When microfiber product's ability to pick up microorganisms is tested, the size of the test object is pivotal. Thus, it is not important whether the microorganism is a bacterium or a virus. Microfiber does not distinguish between the types of microorganisms when they pick them up. Microfiber's ability to pick up microorganisms varies from product to product.

The tests are always conducted with bacteria within the art of microorganisms because of two reasons:

- 1) Bacteria constitute the most extensive health risk because they multiply and evolve with time. Viruses disappear after a certain amount of hours.
- 2) Bacteria are more safe to use in tests and they are more accessible as test objects.

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TEST REPORT High performance Mop

Test item: Report no.: Test date: Issue date: Removal of dust and dirt DL-20230714-11 11.07.2023 14.07.223

High Performance Mop



FX-25-80 FX-30-95 FX-40-110 FX-60-145

For test result please see next page

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TEST RESULT High performance Mop

Test surface	Wooden floor			
Art. no.	FX-25-80		FX-25-80	
	FX-30-95		FX-30-95	
	FX-40-110		FX-40-110	
	FX-60-145		FX-60-145	
	Before washing		After washing (300 times)	
Condition	Dry	Damp	Dry	Damp
Turbidity before clean (Md)	1.56 NTU	1.15 NTU	2.05 NTU	1.69 NTU
Turbidity after clean (Mc)	47.71 NTU	50.08 NTU	28.1 NTU	25.97 NTU
Dust and dirt removal rate (%)	96.7%	97.7%	92.7%	93.5%

NTU = Nephelometric Turbidity Unit

The unit used to describe turbidity, in other words the haziness of the water. Nephelometric refers to the way the instrument, a nephelometer, measures how much light is scattered by suspended particles in the water.

The greater the scattering, the higher the turbidity.

Therefore, low NTU values indicate high water clarity, while high NTU values indicate low water clarity. D

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TEST METHOD High performance Mop



Test conditions:

Test surface	Wooden floor
Sliding range	10x30 cm
Washing	Household washing machine, 90 °C Weak alkali detergent 0.2% Washing times: 300 times

Calculation of the removal rate:

Removal rate (%) = -

Turbidity of before clean (Md) - Turbidity of after clean (Mc)

x 100

Turbidity before clean (Md)

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TEST REPORT High Performance Mop

Test item: Report no.: Test date: Issue date: Autoclave DL-191030-4 30.10.2019 30.10.2019

High Performance Mop



FX-25-80 FX-30-95 FX-40-110 FX-60-145

For test results please see next page

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TEST METHOD High Performance Mop



Test conditions:

Procedure	1 x wash + 1 x autoclave (= 1 cycle) Test result after 3 cycles	
Wash	Industrial washing machine, 11 kg: 60 °C Load: 60% (6.6 kg) Detergent: pH 11 No dry tumbling	
Autoclave	Is used right after wash 121 ℃ 30 min.	

Autoclave is a specially developed machine for sterilisation of products.

The machine is filled with steam under pressure. The product is being exposed to saturated steam with a temperature of 121 $^{\circ}$ C in 30 minutes.



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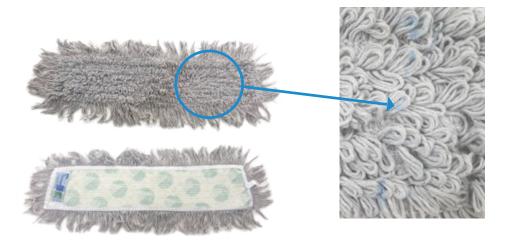
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TEST RESULT High Performance Mop

Test result 1 (-) decrease (+) increase	Width	Length	
Shrinkage	+1.7%	-4.5%	
Art. no.	FX-25-80		
	FX-30-95		
	FX-40-110		
	FX-60-145		

Test result 2 Visual check after autoclaving:



- No damage on the pile or the edge fringes
- No change in the adhesive power of the velcro
- Color bleeding on the pile may happen when autoclaving with products in other colors
- Yellow color phenomenon can occur on the velcro
- Please note: use of autoclave reduces the washing guarantee with ca 50%
 (Nordic Swan eco-labelled products tolerate +500 washes when washed correctly)

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