

Job No./Report No: 20-004381

Date: 19/06/2020



Code: CL-1305

The following sample was (were) submitted and identified by the client as:

Serie: Batch No .:

Reference No.: ART.5168 NEOPRENO HIDROFUGADO Y **ANTIBACTERIANO BLANCO** 

Composition indicated: 92% polyester, 8% elastane

Job no Report No.: 20-004381 Receiving Date: 27/04/2020 Test Start Date: 27/04/2020 Test End Date: 14/05/2020 Sample description: RAW MATERIAL

This test report is a modification of issued in the date "14/05/2020". Change: The Number of Bacteria in BFE has change by laboratorry mistake. Cause: Laboratory review.

## **SUMMARY OF TEST CONCLUSIONS**

SOP description	Conclusions
SOP305 - Change of appearance after washing (Garments and fabrics)	Pass
SOP 342- Bacterial Filtration Efficiency (BFE)	Pass
SOP 342- Bacterial Filtration Efficiency (BFE) after 5 wash cycles	Pass
SOP106 - Determination of breathability (Differential Pressure)	Pass

## Sample Tested



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# SOP305 - Change of appearance after washing (Garments and fabrics)

ID	ID AMSLab	Description	Conclusion
5	S-200427-00068	FABRIC WHITE (5 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200427-00068
Change of appearance after washing		No change
Number of cycles		5
Washing Temperature		60°C

#### Notes:

Note 1: Washing and drying process applied based on UNE-EN ISO 6330:2001

#### Note 2:

- Detergent: 20 gr of Commercial detergent / Drying procedure: Air dry without tumble dry.
- n.a.: not applicable
- Requirement: No obvious change/colour/shape/appearance/seams/embroidery/trimmings/applications

Note 3 - Meaning of the grades of change of appearance:

- No change in appearance after washing and drying process
- Slight change in appearance after washing and drying process
- Moderate change in appearance after washing and drying process
- Severe change in appearance after washing and drying process

# SOP 342- Bacterial Filtration Efficiency (BFE)

ID	ID AMSLab	Description	Conclusion
3	S-200427-00066	FABRIC WHITE (ORIGINAL - 1 LAYER)	Pass

	CAS	S-200427-00066
Test 1: Bacterial Filtration Efficiency		92.5
Test 1: Number of Bacteria		195
Test 2: Bacterial Filtration Efficiency		91.6
Test 2: Number of Bacteria		217
Test 3: Bacterial Filtration Efficiency		91.6
Test 3: Number of Bacteria		217
Test 4: Bacterial Filtration Efficiency		91.7
Test 4: Number of Bacteria		215
Test 5: Bacterial Filtration Efficiency		92.0
Test 5: Number of Bacteria		208

## Notes:

Test Metod Ref: TS EN 14683:2019 Medical Face Masks, Requirements and Test Methods

### Specifications:

- UNE 0065: > 90%

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# Applied Mass Spectrometry Laboratory S.L.U.

# **TEST REPORT**

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Report unit Bacterial Filtration Efficiency = % Report unit Number of Bacteria = cfu/mL

A specimen of the mask material is clamped between a impactor and an aerosol chamber. An aerosol of Staphylococcus aureus is introduced into the aerosol chamber and drawn through the mask material and the impactor under vacuum. The bacterial filtration efficiency of the mask is given by the number of colony forming units passing through the medical face mask material expressed as a percentage of the number of colony forming units present in the challenge aerosol.

Test Flow Rate:28,3 L/min Test Flow Time:2 minute Sample Sizes: Fabric 1 laver

Microorganism: Staphylococcus aureus ATCC 6538 Bacterial concentration (cfu/ml) :5x10E5 cfu/ml Incubation conditions: 24 hour, 35C ± 2C

Positive control sample average of number of Bacteria (C): 2.6x10E3 cfu/ml

(\*) Test subcontracted. Results in subcontracted report number: 20014148

## SOP 342- Bacterial Filtration Efficiency (BFE) after 5 wash cycles

ID	ID AMSLab	Description	Conclusion
4	S-200427-00067	FABRIC WHITE (AFTER 5 WASHING CYCLES AT 60°C - 1 LAYER)	Pass

	CAS	S-200427-00067
Test 1: Bacterial Filtration Efficiency		90.5
Test 1: Number of Bacteria		246
Test 2: Bacterial Filtration Efficiency		90.6
Test 2: Number of Bacteria		244
Test 3: Bacterial Filtration Efficiency		90.6
Test 3: Number of Bacteria		244
Test 4: Bacterial Filtration Efficiency		90.7
Test 4: Number of Bacteria		242
Test 5: Bacterial Filtration Efficiency		90.0
Test 5: Number of Bacteria		260

### Notes:

Test Metod Ref: TS EN 14683:2019 Medical Face Masks, Requirements and Test Methods

### Specifications:

- UNE 0065: > 90%

Report unit Bacterial Filtration Efficiency = % Report unit Number of Bacteria = cfu/mL

A specimen of the mask material is clamped between a impactor and an aerosol chamber. An aerosol of Staphylococcus aureus is introduced into the aerosol chamber and drawn through the mask material and the impactor under vacuum. The bacterial filtration efficiency of the mask is given by the number of colony forming units passing through the medical face mask material expressed as a percentage of the number of colony forming units present in the challenge aerosol.

Test Flow Rate:28,3 L/min Test Flow Time:2 minute

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Sample Sizes: Fabric 1 layer

Microorganism:Staphylococcus aureus ATCC 6538 Bacterial concentration (cfu/ml) :5x10E5 cfu/ml Incubation conditions: 24 hour, 35C ± 2C

Positive control sample average of number of Bacteria (C): 2.6x10E3 cfu/ml

(\*) Test subcontracted. Results in subcontracted report number: 20014149

# SOP106 - Determination of breathability (Differential Pressure)

ID	ID AMSLab	Description	Conclusion
1	S-200427-00064	FABRIC WHITE (ORIGINAL - 1 LAYER)	Pass
ID	ID AMSLab	Description	Conclusion
2	S-200427-00065	FABRIC WHITE (AFTER 5 WASHING CYCLES AT 60°C - 1 LAYER)	Pass

	CAS	S-200427-00064	S-200427-00065
Average Differential pressure (Pa/cm2)		28	38
Value 1 Differential pressure (Pa/cm2)		25	38
Value 2 Differential pressure (Pa/cm2)		28	38
Value 3 Differential pressure (Pa/cm2)		28	38
Value 4 Differential pressure (Pa/cm2)		29	39
Value 5 Differential pressure (Pa/cm2)		28	38

### Notes:

Note 1: Applied standard UNE-EN 14683:2019 and Specification UNE 0064-1, 0064-2 and 0065

Note 2: Size of test specimen: 4.9 cm2

Note 3: Tested area of the test specimen: 2.5 cm

Note 4: Flow of air: (8 ± 0.2) I/min

Note 5: Velocity of 272 l/m2/s or 272 mm/s Note 6: Report Unit: Pa and P (Pa/cm2) Note 7: Number of measurements: 5

Note 8: Conditioned samples: 4 hours at 21 ± 5 °C and 85 ± 5 HR

Note 9: n.a. = not applicable

## Requirement by standard:

- Non-reusable Hygienic Mask by UNE 0064-1-2: < 60 Pa/cm2
- Reusable Hygienic Mask by UNE 0065: < 60 Pa/cm2

## Specific Notes:

(\*\*) The result is out of specifications

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Signed: Pablo Perez Signed: Esteban Ramirez Signed: Manuel Lolo

General Manager Chemical Lab Manager Physical Lab Manager

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