

**Job No./Report No: 20-004381**

**Date: 19/06/2020**

**Client:** Tejidos Peñatex, S.L.

**Code:** CL-1305

**Address:** Batista i Roca,63,1-21 MATARÓ BARCELONA ESPAÑA

**Attn:** Javier Peña Jimenez

**e-MAIL:** penyatex@telefonica.net

**Tel:** 0034 937578273

**Fax:**

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

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

  

Serie :	[Grey shaded field]
Batch No.:	[Grey shaded field]
Reference No.:	<b>ART.5168 NEOPRENO HIDROFUGADO Y ANTIBACTERIANO BLANCO</b>
Composition indicated:	<b>92% polyester, 8% elastane</b>

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



- The laboratory is not responsible for the information received by the client (grey shaded fields)
- Reported results do not include uncertainties (but are available for the customer).
- Opinions and interpretations expressed herein are outside the scope of accreditation.
- Unless otherwise stated the result shown in this test report refer only the sample/s tested and such sample/s are retained for 30 days only.
- Test reports without AMSLab seal and authorized signatures are invalid.
- This document can't be reproduced or modified except in full, without prior given approval of the company.
- Any printed copy of this document is copy from the original digital document.

**Job No./Report No: 20-004381**

**Date: 19/06/2020**

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

**Specifications:**

- UNE 0065: > 90%

- The laboratory is not responsible for the information received by the client (grey shaded fields)
- Reported results do not include uncertainties (but are available for the customer).
- Opinions and interpretations expressed herein are outside the scope of accreditation.
- Unless otherwise stated the result shown in this test report refer only the sample/s tested and such sample/s are retained for 30 days only.
- Test reports without AMSLab seal and authorized signatures are invalid.
- This document can't be reproduced or modified except in full, without prior given approval of the company.
- Any printed copy of this document is copy from the original digital document.

**Job No./Report No: 20-004381**

**Date: 19/06/2020**

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 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: 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

- The laboratory is not responsible for the information received by the client (grey shaded fields)
- Reported results do not include uncertainties (but are available for the customer).
- Opinions and interpretations expressed herein are outside the scope of accreditation.
- Unless otherwise stated the result shown in this test report refer only the sample/s tested and such sample/s are retained for 30 days only.
- Test reports without AMSLab seal and authorized signatures are invalid.
- This document can't be reproduced or modified except in full, without prior given approval of the company.
- Any printed copy of this document is copy from the original digital document.

**Job No./Report No: 20-004381**

**Date: 19/06/2020**

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) l/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

- The laboratory is not responsible for the information received by the client (grey shaded fields)
- Reported results do not include uncertainties (but are available for the customer).
- Opinions and interpretations expressed herein are outside the scope of accreditation.
- Unless otherwise stated the result shown in this test report refer only the sample/s tested and such sample/s are retained for 30 days only.
- Test reports without AMSLab seal and authorized signatures are invalid.
- This document can't be reproduced or modified except in full, without prior given approval of the company.
- Any printed copy of this document is copy from the original digital document.

**Job No./Report No: 20-004381**

**Date: 19/06/2020**

---

Issue Date: 19/06/2020

Signed: Manuel Lolo



amslab.  
Applied Mass Spectrometry Laboratory S.L.U.  
C.I.F. B - 27.380.914

General Manager

Signed: Pablo Perez



amslab.  
Applied Mass Spectrometry Laboratory S.L.U.  
C.I.F. B - 27.380.914

Chemical Lab Manager

Signed: Esteban Ramirez



amslab.  
Applied Mass Spectrometry Laboratory S.L.U.  
C.I.F. B - 27.380.914

Physical Lab Manager

- The laboratory is not responsible for the information received by the client (grey shaded fields)
- Reported results do not include uncertainties (but are available for the customer).
- Opinions and interpretations expressed herein are outside the scope of accreditation.
- Unless otherwise stated the result shown in this test report refer only the sample/s tested and such sample/s are retained for 30 days only.
- Test reports without AMSLab seal and authorized signatures are invalid.
- This document can't be reproduced or modified except in full, without prior given approval of the company.
- Any printed copy of this document is copy from the original digital document.