

**Job No./Report No: 20-004757**

**Date: 05/06/2020**

**Client:** Textiles Visatex S.L.

**Code:** CL-1331

**Address:** C/Transport,45 MURO DE ALCOY ALICANTE/ALACANT ESPAÑA

**Attn:** Juan Martinez Bonet

**e-MAIL:** disenyo@visatex.com

**Tel:** 0034 965592588

**Fax:**

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

Serie : <input type="text"/> Batch No.: <input type="text"/> Reference No.: <b>VIPROTECT 4 CAPAS</b> Composition indicated: <b>EXT: 100%cotton. INTERMEDIO: 80%pes, 20%vis. INT: 100%pp</b>	Job no Report No.: <b>20-004757</b> Receiving Date: <b>14/05/2020</b> Test Start Date: <b>15/05/2020</b> Test End Date: <b>05/06/2020</b> Sample description: <b>RAW MATERIAL MASK</b>
--	--

## 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 Washing	Pass
SOP106 - Determination of breathability (Differential Pressure) - Original	Pass
SOP106 - Determination of breathability (Differential Pressure) - After Washing	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: 20-004757**

**Date: 05/06/2020**

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

ID	ID AMSLab	Description	Conclusion
3	S-200515-00022	FABRIC MULTICOLOR (OUTSIDE)+WHITE(INTERLINING+INSIDE) - (5)	Pass

	CAS	S-200515-00022
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
4	S-200515-00023	FABRIC MULTICOLOR (OUTSIDE)+WHITE(INTERLINING+INSIDE) - ORIGINAL	Pass

	CAS	S-200515-00023
Test 1: Bacterial Filtration Efficiency		98.2
Test 1: Number of Bacteria		51
Test 2: Bacterial Filtration Efficiency		98.3
Test 2: Number of Bacteria		50
Test 3: Bacterial Filtration Efficiency		98.4
Test 3: Number of Bacteria		45
Test 4: Bacterial Filtration Efficiency		98.6
Test 4: Number of Bacteria		41
Test 5: Bacterial Filtration Efficiency		98.7
Test 5: Number of Bacteria		39

Notes:

Test Metod 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: 20-004757**

**Date: 05/06/2020**

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:10x10 cm<sup>2</sup>

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): 2.9x10E3 cfu/ml

(\*) Test subcontracted. Results in subcontracted report number: 20016219

## **SOP 342- Bacterial Filtration Efficiency (BFE) - After Washing**

ID	ID AMSLab	Description	Conclusion
5	S-200515-00024	FABRIC MULTICOLOR (OUTSIDE)+WHITE(INTERLINING+INSIDE) - (AFTER 5	Pass

	CAS	S-200515-00024
Test 1: Bacterial Filtration Efficiency		98.6
Test 1: Number of Bacteria		40
Test 2: Bacterial Filtration Efficiency		98.6
Test 2: Number of Bacteria		41
Test 3: Bacterial Filtration Efficiency		98.4
Test 3: Number of Bacteria		45
Test 4: Bacterial Filtration Efficiency		98.1
Test 4: Number of Bacteria		55
Test 5: Bacterial Filtration Efficiency		98.3
Test 5: Number of Bacteria		50

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

Sample Sizes:10x10 cm<sup>2</sup>

**-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: 20-004757

Date: 05/06/2020

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): 2.9x10E3 cfu/ml

(\*) Test subcontracted. Results in subcontracted report number: 20016220

**SOP106 - Determination of breathability (Differential Pressure) - Original**

ID	ID AMSLab	Description	Conclusion
1	S-200515-00020	FABRIC MULTICOLOR (OUTSIDE)+WHITE(INTERLINING+INSIDE) - ORIGINAL	Pass

	CAS	S-200515-00020
Average Differential pressure (Pa/cm2)		58
Value 1 Differential pressure (Pa/cm2)		58
Value 2 Differential pressure (Pa/cm2)		58
Value 3 Differential pressure (Pa/cm2)		57
Value 4 Differential pressure (Pa/cm2)		58
Value 5 Differential pressure (Pa/cm2)		58

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

**SOP106 - Determination of breathability (Differential Pressure) - After Washing**

ID	ID AMSLab	Description	Conclusion
2	S-200515-00021	FABRIC MULTICOLOR (OUTSIDE)+WHITE(INTERLINING+INSIDE) - (AFTER 5	Pass

	CAS	S-200515-00021
Average Differential pressure (Pa/cm2)		48
Value 1 Differential pressure (Pa/cm2)		48
Value 2 Differential pressure (Pa/cm2)		47
Value 3 Differential pressure (Pa/cm2)		49
Value 4 Differential pressure (Pa/cm2)		47
Value 5 Differential pressure (Pa/cm2)		50

- 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: 20-004757

Date: 05/06/2020

## 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 cm<sup>2</sup>

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/m<sup>2</sup>/s or 272 mm/sNote 6: Report Unit: Pa and P (Pa/cm<sup>2</sup>)

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/cm<sup>2</sup>
- Reusable Hygienic Mask by UNE 0065: < 60 Pa/cm<sup>2</sup>

## Specific Notes:

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

Issue Date: 05/06/2020

Signed: Manuel Lolo

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

General Manager

Signed: Pablo Perez

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

Chemical Lab Manager

Signed: Esteban Ramirez

  
Applied Mass Spectrometry Laboratory S.L.  
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.