

**Job No./Report No:** 20-006182

**Date:** 25/07/2020

**Client:** Goher Textil Calella, S.A.

**Code:** CL-1378

**Address:** CL/Matagalls, Nave 2ª HOSTALRIC GIRONA ESPAÑA

**Attn:** Guillem Muñoz Pérez

**e-MAIL:** produccion@gohertextil.eu

**Tel:** 0034 972865003

**Fax:**

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

Job no Report No.:	<b>20-006182</b>
Receiving Date:	<b>26/06/2020</b>
Test Start Date:	<b>09/07/2020</b>
Test End Date:	<b>25/07/2020</b>
Sample description:	<b>MASK</b>

Serie :

Batch No.:

Reference No.: **MASCARILLA LIVE/ MASCARILLA LIVE/ CRUDO**

Composition indicated: **100% POLYESTER**

## 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



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

ID	ID AMSLab	Description	Conclusion
3	S-200629-00124	MASK WHITE (5 WASHING CYCLES AT 60°C)	Pass
ID	ID AMSLab	Description	Conclusion
7	S-200714-00164	MASK WHITE (AFTER 25 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200629-00124	S-200714-00164
Change of appearance after washing		No change	Slight change
Number of cycles		5	25
Washing Temperature		60°C	60°C

**Notes:**

Note 1: Washing and drying process applied based on UNE-EN ISO 6330:2012

**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-200629-00125	MASK WHITE (ORIGINAL)	Pass

	CAS	S-200629-00125
Test 1: Bacterial Filtration Efficiency		91.5
Test 1: Number of Bacteria		170
Test 2: Bacterial Filtration Efficiency		91.1
Test 2: Number of Bacteria		179
Test 3: Bacterial Filtration Efficiency		91.0
Test 3: Number of Bacteria		180
Test 4: Bacterial Filtration Efficiency		90.8
Test 4: Number of Bacteria		185
Test 5: Bacterial Filtration Efficiency		90.2
Test 5: Number of Bacteria		196

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Notes:

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

Specifications applied:

Spanish specification UNE 0065:2020: 90%

European specification CWA 17553:2020: Level 90% and Level 70%

Report unit Bacterial Filtration Efficiency = %

Report unit Number of Bacteria = cfu/mL

A specimen of the mask material is clamped between an 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) : 5x10<sup>5</sup> cfu/ml

Incubation conditions: 24 hour, 35C ± 2C

Positive control sample average of number of Bacteria (C): 2.0x10<sup>3</sup> cfu/ml

(\*) Test subcontracted. Results in subcontracted report number: 20022799

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

ID	ID AMSLab	Description	Conclusion
5	S-200629-00126	MASK WHITE (AFTER 5 WASHING CYCLES AT 60°C)	Pass
ID	ID AMSLab	Description	Conclusion
8	S-200714-00165	MASK WHITE (AFTER 25 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200629-00126	S-200714-00165
Test 1: Bacterial Filtration Efficiency		90.0	95.5
Test 1: Number of Bacteria		201	98
Test 2: Bacterial Filtration Efficiency		90.1	95.0
Test 2: Number of Bacteria		199	110
Test 3: Bacterial Filtration Efficiency		90.3	95.1
Test 3: Number of Bacteria		195	108
Test 4: Bacterial Filtration Efficiency		90.5	95.3
Test 4: Number of Bacteria		190	103
Test 5: Bacterial Filtration Efficiency		90.2	95.1
Test 5: Number of Bacteria		196	107

Notes:

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

Specifications applied:

Spanish specification UNE 0065:2020: 90%

European specification CWA 17553:2020: Level 90% and Level 70%

Report unit Bacterial Filtration Efficiency = %

Report unit Number of Bacteria = cfu/mL

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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): 2.0x10E3 cfu/ml for sample S-200629-00126 and 2.2x10E3 cfu/ml for sample S-200714-00165

(\*) Test subcontracted. Results in subcontracted report number: 20022800 for sample S-200629-00126 and 20025213 for sample S-200714-00165

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

ID	ID AMSLab	Description	Conclusion
1	S-200629-00122	MASK WHITE (ORIGINAL)	Pass

	CAS	S-200629-00122
Average Differential pressure (Pa/cm <sup>2</sup> )		31
Value 1 Differential pressure (Pa/cm <sup>2</sup> )		31
Value 2 Differential pressure (Pa/cm <sup>2</sup> )		31
Value 3 Differential pressure (Pa/cm <sup>2</sup> )		30
Value 4 Differential pressure (Pa/cm <sup>2</sup> )		32
Value 5 Differential pressure (Pa/cm <sup>2</sup> )		31

**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/s

Note 6: Report Unit: Pa and P (Pa/cm<sup>2</sup>)

Note 7: Number of samples tested: 5 / 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:

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>

- European specification CWA 17553:2020: 70 Pa/cm<sup>2</sup>

Specific Notes:

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

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

ID	ID AMSLab	Description	Conclusion
2	S-200629-00123	MASK WHITE (AFTER 5 WASHING CYCLES AT 60°C)	Pass
ID	ID AMSLab	Description	Conclusion
6	S-200714-00163	MASK WHITE (AFTER 25 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200629-00123	S-200714-00163
Average Differential pressure (Pa/cm2)		35	38
Value 1 Differential pressure (Pa/cm2)		34	38
Value 2 Differential pressure (Pa/cm2)		35	39
Value 3 Differential pressure (Pa/cm2)		36	36
Value 4 Differential pressure (Pa/cm2)		34	37
Value 5 Differential pressure (Pa/cm2)		35	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 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/s
- Note 6: Report Unit: Pa and P (Pa/cm<sup>2</sup>)
- Note 7: Number of samples tested: 5 / 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>
- European specification CWA 17553:2020: 70 Pa/cm<sup>2</sup>

**Specific Notes:**

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

Issue Date: 25/07/2020

Signed: Manuel Lolo



General Manager

Signed: Pablo Perez



Chemical Lab Manager

Signed: Esteban Ramirez



Physical Lab Manager

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