

Job No./Report No: 20-005094

Date: 17/06/2020

FITmask
SMART PROTECTION

Code: CL-1305

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

Serie : <input type="text"/> Batch No.: <input type="text"/> Reference No.: MASCARILLA HI. REUTILIZ. SUBLIMADA FULL PRINT CON COSTURA 5168 NEOPRENO ROSA Composition indicated: 92% PES, 8%EA	Job no Report No.: 20-005094 Receiving Date: 28/05/2020 Test Start Date: 05/06/2020 Test End Date: 17/06/2020 Sample description: HIGIENICAL MASKS
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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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Job No./Report No: 20-005094

Date: 17/06/2020

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

ID	ID AMSLab	Description	Conclusion
3	S-200529-00006	MASK PINK (5 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200529-00006
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 6330:2012

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-200529-00007	MASK PINK (ORIGINAL)	Pass

	CAS	S-200529-00007
Test 1: Bacterial Filtration Efficiency		90.9
Test 1: Number of Bacteria		256
Test 2: Bacterial Filtration Efficiency		90.7
Test 2: Number of Bacteria		260
Test 3: Bacterial Filtration Efficiency		90.6
Test 3: Number of Bacteria		263
Test 4: Bacterial Filtration Efficiency		91.0
Test 4: Number of Bacteria		251
Test 5: Bacterial Filtration Efficiency		91.2
Test 5: Number of Bacteria		247

Notes:

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

Specifications:

- UNE 0065: > 90%

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Job No./Report No: 20-005094

Date: 17/06/2020

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 cm²

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): 2.8x10E3 cfu/ml

(*) Test subcontracted. Results in subcontracted report number: 20017774

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

ID	ID AMSLab	Description	Conclusion
5	S-200529-00008	MASK PINK (AFTER 5 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200529-00008
Test 1: Bacterial Filtration Efficiency		90.6
Test 1: Number of Bacteria		262
Test 2: Bacterial Filtration Efficiency		90.4
Test 2: Number of Bacteria		268
Test 3: Bacterial Filtration Efficiency		90.3
Test 3: Number of Bacteria		271
Test 4: Bacterial Filtration Efficiency		90.0
Test 4: Number of Bacteria		280
Test 5: Bacterial Filtration Efficiency		90.0
Test 5: Number of Bacteria		280

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 cm²

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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): 2.8x10E3 cfu/ml

(*) Test subcontracted. Results in subcontracted report number: 20017775

SOP106 - Determination of breathability (Differential Pressure) - Original

ID	ID AMSLab	Description	Conclusion
1	S-200529-00004	MASK PINK (ORIGINAL)	Pass

	CAS	S-200529-00004
Average Differential pressure (Pa/cm2)		21
Value 1 Differential pressure (Pa/cm2)		23
Value 2 Differential pressure (Pa/cm2)		22
Value 3 Differential pressure (Pa/cm2)		21
Value 4 Differential pressure (Pa/cm2)		20
Value 5 Differential pressure (Pa/cm2)		20

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 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/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-200529-00005	MASK PINK (AFTER 5 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200529-00005
Average Differential pressure (Pa/cm2)		29
Value 1 Differential pressure (Pa/cm2)		31
Value 2 Differential pressure (Pa/cm2)		30
Value 3 Differential pressure (Pa/cm2)		28
Value 4 Differential pressure (Pa/cm2)		29
Value 5 Differential pressure (Pa/cm2)		28

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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 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/cm²

- Reusable Hygienic Mask by UNE 0065: < 60 Pa/cm²

Specific Notes:

(**) The result is out of specifications

Issue Date: 17/06/2020

Signed: Manuel Lolo



Applied Mass Spectrometry Laboratory, S.L.
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General Manager

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Chemical Lab Manager

Signed: Esteban Ramirez



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Physical Lab Manager

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