

Job No./Report No: 20-006831

Date: 24/07/2020

Client: Texia Iberica Diseño Textil, S.L.

Code: CL-1374

Address: Pol. Ind. A Granxa Parcela 260 18B/C PORRIÑO (O) PONTEVEDRA ESPAÑA

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

Job no Report No.:	20-006831
Receiving Date:	10/07/2020
Test Start Date:	13/07/2020
Test End Date:	24/07/2020
Sample description:	MASCARILLAS

Serie :

Batch No.:

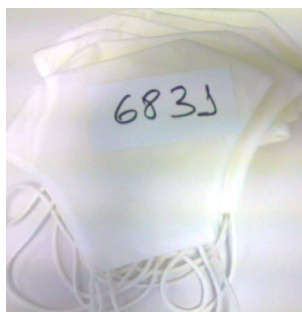
Reference No.: **MASCARILLAS BLANCAS TEXIA**

Composition indicated: **Unknown**

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-200713-00020	MASK WHITE (20 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200713-00020
Change of appearance after washing		No change
Number of cycles		20
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-200713-00021	MASK WHITE (ORIGINAL)	Pass

	CAS	S-200713-00021
Test 1: Bacterial Filtration Efficiency		95.5
Test 1: Number of Bacteria		98
Test 2: Bacterial Filtration Efficiency		95.9
Test 2: Number of Bacteria		91
Test 3: Bacterial Filtration Efficiency		96.0
Test 3: Number of Bacteria		89
Test 4: Bacterial Filtration Efficiency		96.3
Test 4: Number of Bacteria		81
Test 5: Bacterial Filtration Efficiency		96.2
Test 5: Number of Bacteria		83

Notes:

Test Method 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%

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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: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): 2.2x10E3 cfu/ml

(*) Test subcontracted. Results in subcontracted report number: 20024703

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

ID	ID AMSLab	Description	Conclusion
5	S-200713-00022	MASK WHITE (AFTER 20 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200713-00022
Test 1: Bacterial Filtration Efficiency		95.0
Test 1: Number of Bacteria		110
Test 2: Bacterial Filtration Efficiency		95.2
Test 2: Number of Bacteria		106
Test 3: Bacterial Filtration Efficiency		95.3
Test 3: Number of Bacteria		103
Test 4: Bacterial Filtration Efficiency		95.5
Test 4: Number of Bacteria		100
Test 5: Bacterial Filtration Efficiency		95.0
Test 5: Number of Bacteria		109

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 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: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): 2.2x10E3 cfu/ml

(*) Test subcontracted. Results in subcontracted report number: 20024704

SOP106 - Determination of breathability (Differential Pressure) - Original

ID	ID AMSLab	Description	Conclusion
1	S-200713-00018	MASK WHITE (ORIGINAL)	Pass

	CAS	S-200713-00018
Average Differential pressure (Pa/cm2)		24
Value 1 Differential pressure (Pa/cm2)		25
Value 2 Differential pressure (Pa/cm2)		23
Value 3 Differential pressure (Pa/cm2)		24
Value 4 Differential pressure (Pa/cm2)		25
Value 5 Differential pressure (Pa/cm2)		24

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
- European specification CWA 17553:2020: 70 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-200713-00019	MASK WHITE (AFTER 20 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200713-00019
Average Differential pressure (Pa/cm2)		40
Value 1 Differential pressure (Pa/cm2)		39
Value 2 Differential pressure (Pa/cm2)		40
Value 3 Differential pressure (Pa/cm2)		40
Value 4 Differential pressure (Pa/cm2)		40

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	CAS	S-200713-00019
Value 5 Differential pressure (Pa/cm2)		39

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
- European specification CWA 17553:2020: 70 Pa/cm²

Specific Notes:

(**) The result is out of specifications


Issue Date: 24/07/2020

Signed: Manuel Lolo




General Manager

Signed: Pablo Perez



Chemical Lab Manager

Signed: Esteban Ramirez



Physical Lab Manager

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