

TEST REPORT

Job No./Report No: 20-005565 01/07/2020 Date:

Client: Texia Iberica Diseño Textil, S.L.		Code: CL-1374
Address: Pol. Ind. A Granxa Parcela 260	18B/C PORRIÑO (O) PONTEVEDRA ESPAÑA	
Attn: Silvina Martinez Perez	e-MAIL: silvinamartinez@texia.es	
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The following sample was (were) submitted and identified by the client as:

		Job no Report No.:	20-005565
Serie :		Receiving Date:	12/06/2020
Batch No.:		Test Start Date:	12/06/2020
Reference No .:	MASCARILLA BLANCA	Test End Date:	30/06/2020
Composition indicated:	unknown	Sample description:	MASK

This test report is a modification of issued in the date "30/06/2020". Change: Application of the European specification requirements for community face coverings CWA 17553. Cause: Customer's request.

SUMMARY OF TEST CONCLUSIONS

SOP description	Conclusions
SOP305 - Change of appearance after washing (Garments and fabrics)	See Results
SOP 342- Bacterial Filtration Efficiency (BFE)	See Results
SOP 342- Bacterial Filtration Efficiency (BFE) - After Washing	See Results
SOP106 - Determination of breathability (Differential Pressure) - Original	See Results
SOP106 - Determination of breathability (Differential Pressure) - After Washing	See Results

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).

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Date: 01/07/2020

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

ID	ID AMSLab	Description	Conclusion
3	S-200612-00021	MASK WHITE (20 WASHING CYCLES AT 60°C)	See Results

	CAS	S-200612-00021
Change of appearance after washing		Slight 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-200612-00022	MASK WHITE (ORIGINAL)	See Results

	CAS	S-200612-00022
Test 1: Bacterial Filtration Efficiency		85.6
Test 1: Number of Bacteria		245
Test 2: Bacterial Filtration Efficiency		84.6
Test 2: Number of Bacteria		261
Test 3: Bacterial Filtration Efficiency		83.9
Test 3: Number of Bacteria		274
Test 4: Bacterial Filtration Efficiency		84.5
Test 4: Number of Bacteria		264
Test 5: Bacterial Filtration Efficiency		84.3
Test 5: Number of Bacteria		267

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%

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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): 1.7x10E3 cfu/ml

(*) Test subcontracted. Results in subcontracted report number: 20020213

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

ID	ID AMSLab	Description	Conclusion
5	S-200612-00023	MASK WHITE (AFTER 20 WASHING CYCLES AT 60°C)	See Results

	CAS	S-200612-00023
Test 1: Bacterial Filtration Efficiency		84.3
Test 1: Number of Bacteria		267
Test 2: Bacterial Filtration Efficiency		83.8
Test 2: Number of Bacteria		275
Test 3: Bacterial Filtration Efficiency		83.5
Test 3: Number of Bacteria		281
Test 4: Bacterial Filtration Efficiency		83.2
Test 4: Number of Bacteria		286
Test 5: Bacterial Filtration Efficiency		83.0
Test 5: Number of Bacteria		289

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

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Job No./Report No: 20-005565 Date: 01/07/2020

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): 1.7x10E3 cfu/ml

(*) Test subcontracted. Results in subcontracted report number: 20020214

SOP106 - Determination of breathability (Differential Pressure) - Original

ID	ID AMSLab	Description	Conclusion
1	S-200612-00019	MASK WHITE (ORIGINAL)	See Results

	CAS	S-200612-00019
Average Differential pressure (Pa/cm2)		24
Value 1 Differential pressure (Pa/cm2)		24
Value 2 Differential pressure (Pa/cm2)		24
Value 3 Differential pressure (Pa/cm2)		25
Value 4 Differential pressure (Pa/cm2)		24
Value 5 Differential pressure (Pa/cm2)		23

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) I/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-200612-00020	MASK WHITE (AFTER 20 WASHING CYCLES AT 60°C)	See Results

	CAS	S-200612-00020
Average Differential pressure (Pa/cm2)		38
Value 1 Differential pressure (Pa/cm2)		36
Value 2 Differential pressure (Pa/cm2)		40
Value 3 Differential pressure (Pa/cm2)		39

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	CAS	S-200612-00020
Value 4 Differential pressure (Pa/cm2)		38
Value 5 Differential pressure (Pa/cm2)		37

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: 01/07/2020

Signed: Manuel Lolo



Signed: Esteban Ramirez



General Manager

Chemical Lab Manager

Physical Lab Manager

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