

Job No./Report No: 21-002739

Date: 29/03/2021

SOP and results with (#) are not included in the ENAC accreditation scope

Client: Digwind, S.L.

Code: CL-1571

Address: P.I. Axpe, 11, C2, L 109 ERANDIO BIZKAIA ESPAÑA

Attn: Jesús Murua

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Tel: 0034 646775818

Fax:

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

Serie : <input type="text"/> Batch No.: <input type="text"/> Reference No.: Mascarilla E.5.0. Emotion – Sportive Semitransparente	Job no Report No.: 21-002739 Receiving Date: 03/03/2021 Test Start Date: 04/03/2021 Test End Date: 20/03/2021 Sample description: MASK
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Composition indicated: **FIBRA SINTETICA (POLIAMIDA)**

This test report is a modification of issued in the date "20/03/2021". Change: The original customer reference (E 5.0. EMOTION-SPORTIVE SEMITRANSARENTE BREATH/ SEMI TRANSPARENTE) has been replaced by a new reference (Mascarilla E.5.0 Lifestyle Semitransparente). Cause: Customer's request.

The following note is also added by Customer's request: "Digwind es la empresa comercializadora y el fabricante es TEXCON Y CALIDAD, S.L."

#SUMMARY OF TEST CONCLUSIONS

SOP description	# Conclusions
#SOP305 - Change of appearance after washing (Garments and fabrics)	Pass
#SOP 342- Bacterial Filtration Efficiency (BFE) - (Test subcontracted to an accredited laboratory)	Pass
#SOP 342- Bacterial Filtration Efficiency (BFE)-After Washing (Test subcontracted to an accredited lab)	See Results
#SOP347 - Determination of breathability (Differential Pressure) by UNE-EN 14683 annex C - Original	Pass
#SOP347 - Determination of breathability (Differential Pressure) by UNE-EN 14683 annex C - After Washing	Pass
SOP106 - Determination of Air Permeability by ISO 9237 (for CWA 17553) - Original	Pass
SOP106 - Determination of Air Permeability by ISO 9237 (for CWA 17553) - After washing	Pass

Sample Tested



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

ID	ID AMSLab	Description	# Conclusion
18	S-210304-00257	MASK WHITE (AFTER 5 WASHING CYCLES AT 60°C)	Pass
19	S-210304-00258	MASK WHITE (AFTER 20 WASHING CYCLES AT 60°C)	Pass
20	S-210304-00259	MASK WHITE (AFTER 30 WASHING CYCLES AT 60°C)	Pass
21	S-210304-00260	MASK WHITE (AFTER 40 WASHING CYCLES AT 60°C)	Pass
22	S-210304-00261	MASK WHITE (AFTER 50 WASHING CYCLES AT 60°C)	Pass

	CAS	S-210304-00257	S-210304-00258	S-210304-00259	S-210304-00260
Change of appearance after washing		No change	Slight change	Slight change	Slight change
Number of cycles		5	20	30	40
Washing Temperature		60°C	60°C	60°C	60°C

	CAS	S-210304-00261
Change of appearance after washing		Slight change
Number of cycles		50
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

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SOP 342- Bacterial Filtration Efficiency (BFE) - (Test subcontracted to an accredited laboratory)

ID	ID AMSLab	Description	# Conclusion
23	S-210304-00262	MASK WHITE (ORIGINAL)	Pass

	CAS	S-210304-00262
Test 1: Bacterial Filtration Efficiency		96.3
Test 1: Number of Bacteria		112
Test 2: Bacterial Filtration Efficiency		96.2
Test 2: Number of Bacteria		114
Test 3: Bacterial Filtration Efficiency		96.2
Test 3: Number of Bacteria		115
Test 4: Bacterial Filtration Efficiency		95.9
Test 4: Number of Bacteria		123
Test 5: Bacterial Filtration Efficiency		95.9
Test 5: Number of Bacteria		124

Test Method: EN 14683:2019+AC:2019 (TS EN 14683+AC:2019) Annex-B / Medical Face Masks - Requirements and Test Methods

Requirements by specifications:

Spanish specification UNE 0064:2020: $\geq 95\%$

Spanish specification UNE 0065:2020: $\geq 90\%$

European specification CWA 17553:2020: Level $\geq 90\%$ and

European specification CWA 17553:2020: Level $\geq 70\%$

Other requirements:

- Surgical Mask type I by UNE-EN 14683: $\geq 95\%$

- Surgical Mask type II by UNE-EN 14683: $\geq 98\%$

- Surgical Mask type IIR by UNE-EN 14683: $\geq 98\%$

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 \pm 2C

Positive control sample average of number of Bacteria (C): 3.0x10E3 cfu/ml

(* Test subcontracted and accredited laboratory (EKOTEKS LABORATUVAR VE GÖZETM HZMETLER A. .) for medical mask for tests (EN 14683). Results in subcontracted report number: 21009201

The Turkish Accreditation Agency (TURKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of test reports.

EKOTEKS LABORATUVAR VE GÖZETM HZMETLER A. . Denedy Laboratuvar, is accredited by TURKAK under registration number (AB-0583-T) for ISO 17025:2017 as test laboratory.

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SOP 342- Bacterial Filtration Efficiency (BFE)-After Washing (Test subcontracted to an accredited lab)

ID	ID AMSLab	Description	# Conclusion
13	S-210304-00252	MASK WHITE (AFTER 5 WASHING CYCLES AT 60°C)	Pass
14	S-210304-00253	MASK WHITE (AFTER 20 WASHING CYCLES AT 60°C)	Pass
15	S-210304-00254	MASK WHITE (AFTER 30 WASHING CYCLES AT 60°C)	See Results
16	S-210304-00255	MASK WHITE (AFTER 40 WASHING CYCLES AT 60°C)	See Results
17	S-210304-00256	MASK WHITE (AFTER 50 WASHING CYCLES AT 60°C)	See Results

	CAS	S-210304-00252	S-210304-00253	S-210304-00254	S-210304-00255
Test 1: Bacterial Filtration Efficiency		95.6	90.4	88.0	86.0
Test 1: Number of Bacteria		132	288	360	421
Test 2: Bacterial Filtration Efficiency		95.7	90.2	88.1	85.9
Test 2: Number of Bacteria		130	294	357	423
Test 3: Bacterial Filtration Efficiency		95.1	90.1	85.1	85.9
Test 3: Number of Bacteria		146	298	357	422
Test 4: Bacterial Filtration Efficiency		95.0	90.0	88.5	85.5
Test 4: Number of Bacteria		149	300	345	434
Test 5: Bacterial Filtration Efficiency		95.2	90.0	88.3	86.0
Test 5: Number of Bacteria		143	299	352	421

	CAS	S-210304-00256
Test 1: Bacterial Filtration Efficiency		83.3
Test 1: Number of Bacteria		502
Test 2: Bacterial Filtration Efficiency		83.1
Test 2: Number of Bacteria		508
Test 3: Bacterial Filtration Efficiency		83.0
Test 3: Number of Bacteria		510
Test 4: Bacterial Filtration Efficiency		83.2
Test 4: Number of Bacteria		505
Test 5: Bacterial Filtration Efficiency		83.2
Test 5: Number of Bacteria		505

Test Method: EN 14683:2019+AC:2019 (TS EN 14683+AC:2019) Annex-B / Medical Face Masks - Requirements and Test Methods

Requirements by specifications:

Spanish specification UNE 0064:2020: >=95%

Spanish specification UNE 0065:2020: >= 90%

European specification CWA 17553:2020: Level >= 90% and

European specification CWA 17553:2020: Level >= 70%

Other requirements:

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- Surgical Mask type I by UNE-EN 14683: $\geq 95\%$
- Surgical Mask type II by UNE-EN 14683: $\geq 98\%$
- Surgical Mask type IIR by UNE-EN 14683: $\geq 98\%$

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 cm²

Microorganism: Staphylococcus aureus ATCC 6538

Bacterial concentration (cfu/ml): 5x10E5 cfu/ml

Incubation conditions: 24 hour, 35C \pm 2C

Positive control sample average of number of Bacteria (C): 3.0x10E3 cfu/ml

(* Test subcontracted and accredited laboratory (EKOTEKS LABORATUVAR VE GÖZETM HZMETLER A. .) for medical mask for tests (EN 14683). Results in subcontracted report number: 21009203 for sample for 5 washing cycles, 21009204 for sample for 20 washing cycles, 21009206 for sample for 30 washing cycles, 21009207 for sample for 40 washing cycles and 21009209 for sample for 50 washing cycles. The Turkish Accreditation Agency (TURKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of test reports. EKOTEKS LABORATUVAR VE GÖZETM HZMETLER A. . Deneý Laboratuvar, is accredited by TURKAK under registration number (AB-0583-T) for ISO 17025:2017 as test laboratory.

SOP347 - Determination of breathability (Differential Pressure) by UNE-EN 14683 annex C - Original

ID	ID AMSLab	Description	# Conclusion
1	S-210304-00240	MASK WHITE (ORIGINAL)	Pass

	CAS	S-210304-00240
Average Differential pressure (Pa/cm ²)		<1
Value 1 Differential pressure (Pa/cm ²)		<1
Value 2 Differential pressure (Pa/cm ²)		<1
Value 3 Differential pressure (Pa/cm ²)		<1
Value 4 Differential pressure (Pa/cm ²)		<1
Value 5 Differential pressure (Pa/cm ²)		<1

Notes:

Note 1: Applied standard UNE-EN 14683:2019+AC:2019 Annex C for breathability (Differential Pressure)

Note 2: For requirements: Spanish Specification UNE 0064-1, 0064-2, 0065 and European Specification CWA 17553

Note 3: Size of test specimen: 4.9 cm²

Note 4: Tested area of the test specimen: 2.5 cm

Note 5: Flow of air: (8 \pm 0.2) l/min

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 \pm 5 °C and 85 \pm 5 HR

Note 9: n.a. = not applicable

Requirements by specifications:

- Non-reusable Hygienic Mask by UNE 0064-1-2: < 60 Pa/cm²

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

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

Other requirements:

- Surgical Mask type I by UNE-EN 14683: < 40 Pa/cm²
- Surgical Mask type II by UNE-EN 14683: < 40 Pa/cm²
- Surgical Mask type IIR by UNE-EN 14683: < 60 Pa/cm²

Specific Notes:

(**) The result is out of specifications

SOP347 - Determination of breathability (Differential Pressure) by UNE-EN 14683 annex C - After Washing

ID	ID AMSLab	Description	# Conclusion
8	S-210304-00247	MASK WHITE (AFTER 5 WASHING CYCLES AT 60°C)	Pass
9	S-210304-00248	MASK WHITE (AFTER 20 WASHING CYCLES AT 60°C)	Pass
10	S-210304-00249	MASK WHITE (AFTER 30 WASHING CYCLES AT 60°C)	Pass
11	S-210304-00250	MASK WHITE (AFTER 40 WASHING CYCLES AT 60°C)	Pass
12	S-210304-00251	MASK WHITE (AFTER 50 WASHING CYCLES AT 60°C)	Pass

	CAS	S-210304-00247	S-210304-00248	S-210304-00249	S-210304-00250
Average Differential pressure (Pa/cm ²)		<1	<1	<1	<1
Value 1 Differential pressure (Pa/cm ²)		<1	<1	<1	<1
Value 2 Differential pressure (Pa/cm ²)		<1	<1	<1	<1
Value 3 Differential pressure (Pa/cm ²)		<1	<1	<1	<1
Value 4 Differential pressure (Pa/cm ²)		<1	<1	<1	<1
Value 5 Differential pressure (Pa/cm ²)		<1	<1	<1	<1

	CAS	S-210304-00251
Average Differential pressure (Pa/cm ²)		<1
Value 1 Differential pressure (Pa/cm ²)		<1
Value 2 Differential pressure (Pa/cm ²)		<1
Value 3 Differential pressure (Pa/cm ²)		<1
Value 4 Differential pressure (Pa/cm ²)		<1
Value 5 Differential pressure (Pa/cm ²)		<1

Notes:

Note 1: Applied standard UNE-EN 14683:2019+AC:2019 Annex C for breathability (Differential Pressure)

Note 2: For requirements: Spanish Specification UNE 0064-1, 0064-2, 0065 and European Specification CWA 17553

Note 3: Size of test specimen: 4.9 cm²

Note 4: Tested area of the test specimen: 2.5 cm

Note 5: Flow of air: (8 ± 0.2) l/min

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

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Note 9: n.a. = not applicable

Requirements by specifications:

- 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

Other requirements:

- Surgical Mask type I by UNE-EN 14683: < 40 Pa/cm²
- Surgical Mask type II by UNE-EN 14683: < 40 Pa/cm²
- Surgical Mask type IIR by UNE-EN 14683: < 60 Pa/cm²

Specific Notes:

(**) The result is out of specifications

SOP106 - Determination of Air Permeability by ISO 9237 (for CWA 17553) - Original

ID	ID AMSLab	Description	# Conclusion
2	S-210304-00241	MASK WHITE (ORIGINAL)	Pass

	CAS	S-210304-00241
(I.C. 95%) - Confidence Interval ±		0.0
Mean Value air permeability (l/m ² /seg)		>1000.0
Standard deviation		0.0
Value 10 (l/m ² /seg)		>1000.0
Value 1 (l/m ² /seg)		>1000.0
Value 2 (l/m ² /seg)		>1000.0
Value 3 (l/m ² /seg)		>1000.0
Value 4 (l/m ² /seg)		>1000.0
Value 5 (l/m ² /seg)		>1000.0
Value 6 (l/m ² /seg)		>1000.0
Value 7 (l/m ² /seg)		>1000.0
Value 8 (l/m ² /seg)		>1000.0
Value 9 (l/m ² /seg)		>1000.0

Notes:

Note 1: Applied standard UNE-EN 14683:2019 and European Specification CWA 17553:2020

Note 2: Applied pressure: 100 Pa

Note 3: Applied area: 5 cm²

Note 4: Report Unit: l/m²/seg (= mm/seg)

Note 5: Number of measurements: 10

Note 6: Conditioned samples: 24 hours at 20 ± 2 °C and 65 ± 4 HR

Note 7: n.a. = not applicable

Note 8: Standard deviation units and I.C. 95% units: l/m²/seg

Requirements by specifications:

- European specification CWA 17553:2020: >= 96 l/m²/s

Specific Notes:

(**) The result is out of specifications

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SOP106 - Determination of Air Permeability by ISO 9237 (for CWA 17553) - After washing

ID	ID AMSLab	Description	# Conclusion
3	S-210304-00242	MASK WHITE (AFTER 5 WASHING CYCLES AT 60°C)	Pass
ID	ID AMSLab	Description	# Conclusion
4	S-210304-00243	MASK WHITE (AFTER 20 WASHING CYCLES AT 60°C)	Pass
ID	ID AMSLab	Description	# Conclusion
5	S-210304-00244	MASK WHITE (AFTER 30 WASHING CYCLES AT 60°C)	Pass
ID	ID AMSLab	Description	# Conclusion
6	S-210304-00245	MASK WHITE (AFTER 40 WASHING CYCLES AT 60°C)	Pass
ID	ID AMSLab	Description	# Conclusion
7	S-210304-00246	MASK WHITE (AFTER 50 WASHING CYCLES AT 60°C)	Pass

	CAS	S-210304-00242	S-210304-00243	S-210304-00244	S-210304-00245
(I.C. 95%) - Confidence Interval ±		0.0	0.0	0.0	0.0
Mean Value air permeability (l/m2/seg)		>1000.0	>1000.0	>1000.0	>1000.0
Standard deviation		0.0	0.0	0.0	0.0
Value 10 (l/m2/seg)		>1000.0	>1000.0	>1000.0	>1000.0
Value 1 (l/m2/seg)		>1000.0	>1000.0	>1000.0	>1000.0
Value 2 (l/m2/seg)		>1000.0	>1000.0	>1000.0	>1000.0
Value 3 (l/m2/seg)		>1000.0	>1000.0	>1000.0	>1000.0
Value 4 (l/m2/seg)		>1000.0	>1000.0	>1000.0	>1000.0
Value 5 (l/m2/seg)		>1000.0	>1000.0	>1000.0	>1000.0
Value 6 (l/m2/seg)		>1000.0	>1000.0	>1000.0	>1000.0
Value 7 (l/m2/seg)		>1000.0	>1000.0	>1000.0	>1000.0
Value 8 (l/m2/seg)		>1000.0	>1000.0	>1000.0	>1000.0
Value 9 (l/m2/seg)		>1000.0	>1000.0	>1000.0	>1000.0

	CAS	S-210304-00246
(I.C. 95%) - Confidence Interval ±		0.0
Mean Value air permeability (l/m2/seg)		>1000.0
Standard deviation		0.0
Value 10 (l/m2/seg)		>1000.0
Value 1 (l/m2/seg)		>1000.0
Value 2 (l/m2/seg)		>1000.0
Value 3 (l/m2/seg)		>1000.0
Value 4 (l/m2/seg)		>1000.0
Value 5 (l/m2/seg)		>1000.0
Value 6 (l/m2/seg)		>1000.0
Value 7 (l/m2/seg)		>1000.0
Value 8 (l/m2/seg)		>1000.0
Value 9 (l/m2/seg)		>1000.0

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Notes:

Note 1: Applied standard UNE-EN 14683:2019 and European Specification CWA 17553:2020

Note 2: Applied pressure: 100 Pa

Note 3: Applied area: 5 cm²Note 4: Report Unit: l/m²/seg (= mm/seg)

Note 5: Number of measurements: 10

Note 6: Conditioned samples: 24 hours at 20 ± 2 °C and 65 ± 4 HR

Note 7: n.a. = not applicable

Note 8: Standard deviation units and I.C. 95% units: l/m²/seg

Requirements by specifications:

- European specification CWA 17553:2020: >= 96 l/m²/s

Specific Notes:

(**) The result is out of specifications

Issue Date: 29/03/2021

Signed: Manuel Lolo



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

General Manager

Signed: Pablo Perez



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

Chemical Lab Manager

Signed: Esteban Ramirez



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

Physical Lab Manager

Test report reviewed by Esteban Ramirez (Physical Tests) and Pablo Pérez (Chemical Tests)

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