

Job No./Report No: 20-008328

Date: 26/08/2020

Client: DEDALTEX S.L.

Code: CL-1361

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

Job no Report No.: 20-008328
Receiving Date: 12/08/2020
Test Start Date: 13/08/2020
Test End Date: 26/08/2020
Sample description: MASK

Serie :
 Batch No.:
 Reference No.: COTO C HIDRO VIROBLOCK/ESTAMPADAS
 Composition indicated: 100% cotton

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
4	S-200813-00093	MASK MULTICOLORED (5 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200813-00093
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
2	S-200813-00091	MASK MULTICOLORED (ORIGINAL)	Pass

	CAS	S-200813-00091
Test 1: Bacterial Filtration Efficiency		91.0
Test 1: Number of Bacteria		238
Test 2: Bacterial Filtration Efficiency		91.3
Test 2: Number of Bacteria		229
Test 3: Bacterial Filtration Efficiency		90.6
Test 3: Number of Bacteria		247
Test 4: Bacterial Filtration Efficiency		91.2
Test 4: Number of Bacteria		232
Test 5: Bacterial Filtration Efficiency		91.3
Test 5: Number of Bacteria		230

Notes:

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 0065:2020: 90%

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

Other requirements:

- Surgical Mask type I by UNE-EN 14683: 95%
- Surgical Mask type II by UNE-EN 14683: 98%
- Surgical Mask type IIR by UNE-EN 14683: 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 ± 2C

Positive control sample average of number of Bacteria (C): 2.6x10E3 cfu/ml

(*) Test subcontracted and accredited for medical mask tests (EN 14683). Results in subcontracted report number: 20029083

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

ID	ID AMSLab	Description	Conclusion
5	S-200813-00094	MASK MULTICOLORED (AFTER 5 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200813-00094
Test 1: Bacterial Filtration Efficiency		90.9
Test 1: Number of Bacteria		241
Test 2: Bacterial Filtration Efficiency		90.6
Test 2: Number of Bacteria		248
Test 3: Bacterial Filtration Efficiency		90.2
Test 3: Number of Bacteria		259
Test 4: Bacterial Filtration Efficiency		90.5
Test 4: Number of Bacteria		250
Test 5: Bacterial Filtration Efficiency		90.7
Test 5: Number of Bacteria		245

Notes:

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 0065:2020: 90%

European specification CWA 17553:2020: Level 90% and

European specification CWA 17553:2020: Level 70%

Other requirements:

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

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- Surgical Mask type II by UNE-EN 14683: 98%
- Surgical Mask type IIR by UNE-EN 14683: 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 ± 2C

Positive control sample average of number of Bacteria (C): 2.6x10E3 cfu/ml

(*) Test subcontracted and accredited for medical mask tests (EN 14683). Results in subcontracted report number: 20029082

SOP106 - Determination of breathability (Differential Pressure) - Original

ID	ID AMSLab	Description	Conclusion
1	S-200813-00090	MASK MULTICOLORED (ORIGINAL)	Pass

	CAS	S-200813-00090
Average Differential pressure (Pa/cm ²)		30
Value 1 Differential pressure (Pa/cm ²)		30
Value 2 Differential pressure (Pa/cm ²)		31
Value 3 Differential pressure (Pa/cm ²)		29
Value 4 Differential pressure (Pa/cm ²)		31
Value 5 Differential pressure (Pa/cm ²)		27

Notes:

Note 1: Applied standard UNE-EN 14683:2019 and Spanish Specification UNE 0064-1, 0064-2, 0065 and European Specification CWA 17553

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

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

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Specific Notes:

(**) The result is out of specifications

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

ID	ID AMSLab	Description	Conclusion
3	S-200813-00092	MASK MULTICOLORED (AFTER 5 WASHING CYCLES AT 60°C)	Pass

	CAS	S-200813-00092
Average Differential pressure (Pa/cm ²)		34
Value 1 Differential pressure (Pa/cm ²)		31
Value 2 Differential pressure (Pa/cm ²)		32
Value 3 Differential pressure (Pa/cm ²)		35
Value 4 Differential pressure (Pa/cm ²)		33
Value 5 Differential pressure (Pa/cm ²)		38

Notes:

Note 1: Applied standard UNE-EN 14683:2019 and Spanish Specification UNE 0064-1, 0064-2, 0065 and European Specification CWA 17553

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

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

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Issue Date: 26/08/2020

Signed: Manuel Lolo


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General Manager

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Physical Lab Manager

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