

Analytical Report Nr.

AR-21-YL-002797-01-EN

Sample code Nr.

560-2021-00002174

Date

23/03/2021

ANALYTICAL REPORT

Client Information

ARCOMALLA, S.L.
PASEO CONSTITUCION, 119 (INTERIOR)
Arnedo SPAIN
+34941381190
arcomalla@arcomalla.com
For the attention of Mr Jesús Jiménez

Sample Information

Order Code: EUAA70-00010870
Reception Date: 1-Mar-2021
Analysis Starting Date: 1-Mar-2021
Analysis Ending Date: 23-Mar-2021
Sample code Nr. 560-2021-00002174
Sample described as: Mascarillas / Masks

Requirements and decision rule

Customer requirements: CWA 17553:2020 Community face coverings requirements- Level 70%
Decision Rule: Shared risk - Simple acceptance. Probability of False Acceptance <50%

Information provided by the customer*

Client Reference: Mantuki Mask
Sample Description:
Purchase Order Number:

Batch No suministrado / Not provided

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23/03/2021

SAMPLE PICTURE

Analytical Report Nr.

AR-21-YL-002797-01-EN

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560-2021-00002174

Date

23/03/2021

CONCLUSION:

TEST PROPERTY	PASS	FAIL	REMARKS
• Bacterial Filtration Efficiency (BFE) EN 14683:2019+AC:2019 Annex B			
A - En original / As received	X		
C - Tras 20 lavados / After 20 washes	X		
◆ Cleaning and disinfection of reusable hygienic masks Disinfection method			
B - Lavado / Washing			REFER RESULT
Breathability (Differential Pressure) EN 14683:2019+AC:2019 Annex C			
A - En original / As received	X		
C - Tras 20 lavados / After 20 washes	X		

Remark: Test has been performed as per application request

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560-2021-00002174

Date

23/03/2021

COMPONENT LIST:

COMPONENT ID	COMPONENT NAME	MATERIAL DESCRIPTION	COLOR	REMARKS
CUST 01	B - Lavado / Washing	Mascarilla / Mask	Blanco-Negr o White-Black	---
CUST 02	A - En original / As received	Mascarilla / Mask	Blanco-Negr o White-Black	---
CUST 03	C - Tras 20 lavados / After 20 washes	Mascarilla / Mask	Blanco-Negr o White-Black	---

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MASKS TESTING	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES
---------------	---------	---------	------	-----	------------

Analyses on:A - En original / As received

• Bacterial Filtration Efficiency (BFE)

Analysis Ending Date: 22/03/2021

EN 14683:2019+AC:2019 Annex B

Bacterial Filtration Efficiency
(BFE)

73.7 %

-

≥ 70 %

✓ Pass

Complete test data reported at Annex.

Testing covered by NABL accreditation n°TC-5492.

Breathability (Differential Pressure)

Analysis Ending Date: 22/03/2021

EN 14683:2019+AC:2019 Annex C

Differential pressure

32.3 Pa/cm² (± 2.4) Pa/cm²

-

< 70 Pa/cm²

✓ Pass

Complete test data reported at Annex.

Analyses on:B - Lavado / Washing

◆ Cleaning and disinfection of reusable hygienic masks

Analysis Ending Date: 23/03/2021

Disinfection method

Number of washing cycles

20

-

Procedure for each wash cycle:

-The masks are immersed in a 1:50 dilution of bleach with warm water for 30 minutes.

-Afterwards, they are washed with soap and water and rinsed well to remove any residual bleach and left to dry

Analyses on:C - Tras 20 lavados / After 20 washes

• Bacterial Filtration Efficiency (BFE)

Analysis Ending Date: 22/03/2021

EN 14683:2019+AC:2019 Annex B

Bacterial Filtration Efficiency
(BFE)

71.2 %

-

≥ 70 %

✓ Pass

Complete test data reported at Annex.

Testing covered by NABL accreditation n°TC-5492.

Analytical Report Nr.

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Sample code Nr.

560-2021-00002174

Date

23/03/2021

MASKS TESTING	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES
Breathability (Differential Pressure)					Analysis Ending Date: 22/03/2021
EN 14683:2019+AC:2019 Annex C					
Differential pressure		52.5 Pa/cm ²	(± 1.9) Pa/cm ²	-	< 70 Pa/cm ² ✓ Pass

Complete test data reported at Annex.

Analytical Report Nr.

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560-2021-00002174

Date

23/03/2021

Signed for and on behalf of Eurofins Textile Testing Spain:

Report electronically validated by

Axel Ferrando

Physical-Mechanical Lab Manager

EXPLANATORY NOTE

- ◆ Test not covered by ENAC accreditation scope
- Test is subcontracted within Eurofins group and is accredited
- Test is subcontracted within Eurofins group and is not accredited
- Test is subcontracted outside Eurofins group and is accredited
- Test is subcontracted outside Eurofins group and is not accredited

N/A = Not Applicable

Eurofins Textile Testing Spain S.L.U. is not responsible of the information supplied by the costumer and reported as section "Information provided by the costumer".

Eurofins General Sales Terms and Conditions Applied.

Results obtained refer only to samples, products or material received in Laboratory, as described in section "Sample information" and tested in conditions shown in present report.

Test uncertainties not reported are at customer disposal, for those tests in which it is possible to evaluate the test uncertainty.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k = 2$, which for a normal distribution provides a level of confidence of approximately 95%.

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If you happen to have any comments, please do it by sending email to textile_spain@eurofins.com and referring to this report number.

End Of Report

Código de Informe de Ensayo:

AR-21-YL-002797-01-ES

Código de muestra

560-2021-00002174

Fecha de emisión

23/03/2021

INFORME DE ENSAYO

Información del cliente

ARCOMALLA, S.L.
PASEO CONSTITUCION, 119 (INTERIOR)
Arnedo ESPAÑA
+34941381190
arcomalla@arcomalla.com

A la atención de Mr Jesús Jiménez

Información de la muestra

Código de la orden: EUAA70-00010870
Fecha de recepción de la muestra: 1-Mar-2021
Fecha de inicio de análisis: 1-Mar-2021
Fecha fin de análisis: 23-Mar-2021
Código de muestra: 560-2021-00002174
Descripción de la muestra: Mascarillas / Masks

Requisitos y regla de decisión

Requerimientos del cliente: CWA 17553:2020 Requisitos para mascarillas higiénicas - Nivel 70%
Regla de decisión: Riesgo compartido - Aceptación simple. Probabilidad de Aceptación Falsa <50%

Información suministrada por el cliente*

Referencia de cliente: Mantuki Mask
Descripción de la muestra:
Guía de remisión:

Lote No suministrado / Not provided

Código de Informe de Ensayo:

AR-21-YL-002797-01-ES

Código de muestra

560-2021-00002174

Fecha de emisión

23/03/2021

FOTOGRAFÍA DE LA MUESTRA

Código de Informe de Ensayo:

AR-21-YL-002797-01-ES

Código de muestra

560-2021-00002174

Fecha de emisión

23/03/2021

CONCLUSIÓN:

ENSAYO	CUMPLE	NO CUMPLE	OBSERVACIONES
• Eficiencia de Filtración Bacteriana (BFE) EN 14683:2019+AC:2019 Anexo B			
A - En original / As received	X		
C - Tras 20 lavados / After 20 washes	X		
◆ Limpieza y desinfección de Mascarillas higiénicas reutilizables Método de desinfección			
B - Lavado / Washing			VER RESULTADOS
Respirabilidad (Presión diferencial) EN 14683:2019+AC:2019 Anexo C			
A - En original / As received	X		
C - Tras 20 lavados / After 20 washes	X		

Observación: Los ensayos se realizaron según la solicitud del cliente

Código de Informe de Ensayo:

AR-21-YL-002797-01-ES

Código de muestra

560-2021-00002174

Fecha de emisión

23/03/2021

LISTA DE COMPONENTES:

ID DEL COMPONENTE	NOMBRE DEL COMPONENTE	DESCRIPCIÓN DEL MATERIAL	COLOR	OBSERVACIONES
CUST 01	B - Lavado / Washing	Mascarilla / Mask	Blanco-Negr o White-Black	---
CUST 02	A - En original / As received	Mascarilla / Mask	Blanco-Negr o White-Black	---
CUST 03	C - Tras 20 lavados / After 20 washes	Mascarilla / Mask	Blanco-Negr o White-Black	---

Código de Informe de Ensayo: AR-21-YL-002797-01-ES
Código de muestra: 560-2021-00002174
Fecha de emisión: 23/03/2021

ENSAYOS A MASCARILLAS	CAS No.	RESULTADOS	INC.	LOQ	LÍMITES
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Análisis sobre:A - En original / As received

• Eficiencia de Filtración Bacteriana (BFE)

Fecha fin de análisis: 22/03/2021

EN 14683:2019+AC:2019 Anexo B

Eficacia de filtración bacteriana (BFE)	73.7 %	-	≥ 70 %	✓ Cumple
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Datos completos del ensayo incluidos en el Anexo.
 Ensayo cubierto por acreditación NABL nº TC-5492.

Respirabilidad (Presión diferencial)

Fecha fin de análisis: 22/03/2021

EN 14683:2019+AC:2019 Anexo C

Presión diferencial	32.3 Pa/cm ² (± 2.4) Pa/cm ²	-	< 70 Pa/cm ²	✓ Cumple
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Datos completos del ensayo incluidos en el Anexo.

Análisis sobre:B - Lavado / Washing

◆ Limpieza y desinfección de Mascarillas higiénicas reutilizables

Fecha fin de análisis: 23/03/2021

Método de desinfección

Número de ciclos de lavado	20	-		
----------------------------	----	---	--	--

Procedimiento de cada ciclo de lavado:
 -Se sumergen las mascarillas en una dilucion de lejia 1:50 con agua tibia durante 30 minutos.
 -Despues se lavan con agua y jabon y se aclaran bien para eliminar cualquier resto de lejia y se dejan secar.

Análisis sobre:C - Tras 20 lavados / After 20 washes

• Eficiencia de Filtración Bacteriana (BFE)

Fecha fin de análisis: 22/03/2021

EN 14683:2019+AC:2019 Anexo B

Eficacia de filtración bacteriana (BFE)	71.2 %	-	≥ 70 %	✓ Cumple
---	--------	---	--------	----------

Datos completos del ensayo incluidos en el Anexo.
 Ensayo cubierto por acreditación NABL nº TC-5492.

Código de Informe de Ensayo:

AR-21-YL-002797-01-ES

Código de muestra

560-2021-00002174

Fecha de emisión

23/03/2021

ENSAYOS A MASCARILLAS	CAS No.	RESULTADOS	INC.	LOQ	LÍMITES
Respirabilidad (Presión diferencial)					Fecha fin de análisis: 22/03/2021
EN 14683:2019+AC:2019 Anexo C					
Presión diferencial		52.5 Pa/cm ² (± 1.9) Pa/cm ²	-	< 70 Pa/cm ²	✓ Cumple

Datos completos del ensayo incluidos en el Anexo.

Código de Informe de Ensayo:

AR-21-YL-002797-01-ES

Código de muestra

560-2021-00002174

Fecha de emisión

23/03/2021

Firmado en representación de Eurofins Textile Testing Spain:

Informe validado electrónicamente por

Axel Ferrando

Responsable Laboratorio Físico/Mecánico

Nota aclaratoria

- ◆ Ensayo no amparado por la acreditación ENAC
- Test subcontratado dentro del grupo Eurofins y está acreditado
- Test subcontratado dentro del grupo Eurofins y no está acreditado
- Test subcontratado fuera del grupo Eurofins y está acreditado
- Test subcontratado fuera del grupo Eurofins y no está acreditado

N/A = No Aplica

*Eurofins Textile Testing Spain S.L.U no es responsable de la información suministrada por el cliente indicada en el apartado "Información suministrada por el cliente".

Los resultados obtenidos refieren solamente a las muestras, productos o materiales recibidos en el laboratorio, descritos en el apartado "Descripción de las muestras" y fueron ensayados en las condiciones descritas en el presente informe.

Las incertidumbres de ensayo no indicadas están a disposición del cliente, para aquellos ensayos en los que puedan ser estimadas.

La incertidumbres expandidas incluidas en el informe están basadas en la incertidumbre típica multiplicada por el factor de cobertura $k=2$, que para una distribución normal proporciona un nivel de confianza de aproximadamente el 95%

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Si desea hacer cualquier comentario contacte con nosotros a través de la siguiente dirección de correo electrónico **textile_spain@eurofins.com** indicando este número de informe.

FIN DEL INFORME

CIN:U74220DL1998PLC092698

TEST REPORT

Test Report Issued To:

EUROFINS TEXTILE TESTING SPAIN SL

C/ GERMAN BERNACER, 9, 03203,
ELCHE (ALICANTE), ELCHE ALICANTE, SPAIN

Test Report No: N210305009/N210305009-11

Date of Issue: 10-Mar-2021



Sample Booking/Receipt Date: 05-Mar-2021

Date of Start of Testing: 05-Mar-2021

Date of Completion of Test: 10-Mar-2021

Customer Relationship Number

60680

Sample Description :

MASK SAMPLE DESCRIPTION 560-2021-00002174 ORIGINAL



Customer Reference No

EUAA70-00010870 ORIGINAL

Kind Attention : MELODIE RUIZ

E-Mail: resultintercotexspain@eurofins.com

Contact No: +34 966 299 638

Sample Condition : GOOD

Sample Quantity (Approx) : -

Sample Size (Approx) : -

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED

Report Issued By

ULR-TC549221000004051F

Authenticity of report can be verified by mail at verification@spectrolab.in

This is a Digitally Signed Report and hence doesn't require Physical Signature.

Spectro Analytical Labs Limited, E-41, Okhla Indl. Area, Phase-II, New Delhi-110020(India)

Phone :+91-11-40522000, 41611000 || **Web**: www.spectro.in|| **Email**: care@spectro.in

ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory

Please refer to our Website <http://www.spectro.in/spectro-policies.html> for Terms & Condition

TEST REPORT FOR DETERMINATION OF:

Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of Staphylococcus aureus

1. Name of Product

Mask

2. Test Method

BS EN 14683:2019/Annex B: Medical face masks - Requirements and test methods

3. Scope

To perform bacterial filtration efficiency test on surgical mask as per procedure given BS EN 14683:2019, by using biological aerosol of Staphylococcus aureus.

4. Testing Laboratory

Name: Spectro Analytical Labs Limited
Address: E-41, Okhla Phase-2
New Delhi
Pin Code: 110020
Ph: 011-40522000

5. Date of Test

Test Date : 05.03.2021

6. Specimen Verification

6.1. Specimen Definition

The testing laboratory was not involved in the selection of the test specimen.

7. Conditioning

Each test specimens were placed for 5 h at a temperature of 21 ± 5 °C and a relative humidity of 85 ± 5 %.

8. Inoculum Size

Staphylococcus aureus ATCC 6538 (5×10^5 cfu/ml)

9. Medium Used

Tryptic soya agar

10. Temperature condition

37°C /20 to 52 hours

Rity Tiwari
Analyst Signature



Testing(TC-5492)



ULR-TC549221000004051F



Authorised Signatory

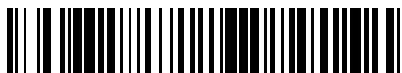
11. Observations, Requirements & Result

Sr. no.	Test Parameters	Result	Limits as per BS EN 14683:2019/ANNEX B	Test Method
1	Bacterial Filtration Efficiency of Specimen (%)	73.7	Level 1= ≥ 95 Level 2= ≥ 98 Level 3= ≥ 98	BS EN 14683:2019
		73.6		
		74.0		
		73.8		
		73.4		
	Average of BFE results (%)	73.7		
2	Area of test Specimen	(100×100) Face side	Face side	BS EN 14683:2019
3	Flow rate of aerosol	28.3	28.3 L/Minute	BS EN 14683:2019
4	Mean particle size of Challenge aerosol of Staphylococcus aureus, micron	2.77	3±0.3	BS EN 14683:2019
5	Average Plate count of Positive control of Staphylococcus aureus in count, per test	1924	1700-3000	BS EN 14683:2019
6	Average Plate count of Negative control	Negative	Negative	BS EN 14683:2019

Remarks: The sample showed average 73.7 % Bacterial filtration efficiency against Staphylococcus aureus ATCC 6538 according to BS EN 14683:2019 test method.

-- End of Test Report --

ULR-TC549221000004051F



Rity Tiwari
Analyst Signature



Testing(TC-5492)



Authorised Signatory

TEST REPORT

Test Report Issued To:

EUROFINS TEXTILE TESTING SPAIN SL

C/ GERMAN BERNACER, 9, 03203,
ELCHE (ALICANTE), ELCHE ALICANTE, SPAIN

Test Report No: N210311004/N210311004-11

Date of Issue: 16-Mar-2021



Sample Booking/Receipt Date: 11-Mar-2021

Date of Start of Testing: 11-Mar-2021

Date of Completion of Test: 16-Mar-2021

Customer Relationship Number 60680

Sample Description :

MASK SAMPLE 560-2021-00002174 AFTER 20 WASHES



Customer Reference No

EUAA70-00010870 AFTER 20 WASHES

Kind Attention : MELODIE RUIZ

E-Mail: resultintercotexspain@eurofins.com

Contact No: +34 966 299 638

Sample Condition : GOOD

Sample Quantity (Approx) :

Sample Size (Approx) :

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED

Digitally signed
by YOGESH
MALIK
Date: 2021.03.16
17:16:18 +05:30

Report Issued By

ULR-TC549221000004314F

Authenticity of report can be verified by mail at verification@spectrolab.in

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Spectro Analytical Labs Limited, E-41, Okhla Indl. Area, Phase-II, New Delhi-110020(India)

Phone :+91-11-40522000, 41611000 || **Web**: www.spectro.in || **Email**: care@spectro.in

ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory

Please refer to our Website <http://www.spectro.in/spectro-policies.html> for Terms & Condition

TEST REPORT FOR DETERMINATION OF:

Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of Staphylococcus aureus

1. Name of Product

Mask

2. Test Method

BS EN 14683:2019/Annex B: Medical face masks - Requirements and test methods

3. Scope

To perform bacterial filtration efficiency test on surgical mask as per procedure given BS EN 14683:2019, by using biological aerosol of Staphylococcus aureus.

4. Testing Laboratory

Name: Spectro Analytical Labs Limited
Address: E-41, Okhla Phase-2
New Delhi
Pin Code: 110020
Ph: 011-40522000

5. Date of Test

Test Date : 11.03.2021

6. Specimen Verification

6.1. Specimen Definition

The testing laboratory was not involved in the selection of the test specimen.

7. Conditioning

Each test specimens were placed for 5 h at a temperature of 21 ± 5 °C and a relative humidity of 85 ± 5 %.

8. Inoculum Size

Staphylococcus aureus ATCC 6538 (5×10^5 cfu/ml)

9. Medium Used

Tryptic soya agar

10. Temperature condition

37°C/20 to 52 hours

Mahavish Bano
Analyst Signature



Testing(TC-5492)



ULR-TC549221000004314F



Authorised Signatory

11. Observation, Requirements & Result

Sr. no.	Test Parameters	Result	Limits as per BS EN 14683:2019/ANNEX B	Test Method
1	Bacterial Filtration Efficiency of Specimen (%)	71.3	Level 1= ≥ 95 Level 2= ≥ 98 Level 3= ≥ 98	BS EN 14683:2019
		71.0		
		71.1		
		71.4		
		71.2		
	Average of BFE results (%)	71.2		
2	Area of test Specimen	(100 mm $\times$ 100 mm) Face side	Face side	BS EN 14683:2019
3	Flow rate of aerosol	28.3	28.3 L/Minute	BS EN 14683:2019
4	Mean particle size of Challenge aerosol of Staphylococcus aureus, micron	3.18	3 $\pm$ 0.3	BS EN 14683:2019
5	Average Plate count of Positive control of Staphylococcus aureus in count, per test	1992	1700-3000	BS EN 14683:2019
6	Average Plate count of Negative control	Negative	Negative	BS EN 14683:2019

Remarks: The sample showed average 71.2 % Bacterial filtration efficiency against Staphylococcus aureus ATCC 6538 according to BS EN 14683:2019 test method.

Mahvish Bano
Analyst Signature



Testing(TC-5492)



ULR-TC549221000004314F



Authorised Signatory

12. Observations

Negative Plate count

Specimen	Count of Plate at stage-1	Count of Plate at stage-2	Count of Plate at stage-3	Count of Plate at stage-4	Count of Plate at stage-5	Count of Plate at stage-6	Total sum of counts
Negative control (cfu)	0	0	0	0	0	0	0

Positive Plate count

Specimen	Count of Plate at stage-1	Count of Plate at stage-2	Count of Plate at stage-3	Count of Plate at stage-4	Count of Plate at stage-5	Count of Plate at stage-6	Total sum of counts
Size of particle micron	7.00	4.70	3.30	2.10	1.10	0.65	
Positive control No.-1, cfu	323	319	386	360	303	298	1989
Positive control No.-2, cfu	331	325	378	367	311	283	1995

Mean of the total plate counts of the two positive controls (cfu)= 1992

Mean Particle size (MPS)

	MPS
Positive control No.-1, (µm)	3.17
Positive control No.-2, (µm)	3.20
Mean (µm)	3.18

Mahavish Bano
Analyst Signature



Testing(TC-5492)



ULR-TC549221000004314F



Digitally signed
by YOGESH
MALIK
Date: 2021.03.16
17:18:18 +0530

Authorised Signatory

Test Specimens Plate counts

Specimen	Count of Plate at stage-1	Count of Plate at stage-2	Count of Plate at stage-3	Count of Plate at stage-4	Count of Plate at stage-5	Count of Plate at stage-6	Total sum of counts
Aliquot-1	22	35	52	88	146	228	571
Aliquot-2	16	39	54	87	148	233	577
Aliquot-3	18	36	52	88	151	231	576
Aliquot-4	20	37	49	92	145	227	570
Aliquot-5	21	34	47	90	149	232	573

Test Specimens Bacterial Filtration efficiency (BFE)

	BFE (%)
Aliquot-1	71.3
Aliquot-2	71.0
Aliquot-3	71.1
Aliquot-4	71.4
Aliquot-5	71.2

-- End of Test Report --

ULR-TC549221000004314F



Authorised Signatory

Mahavish Bano
Analyst Signature



Testing(TC-5492)



METHOD FOR DETERMINATION OF BREATHABILITY (DIFFERENTIAL PRESSURE)
DETERMINACIÓN DE LA RESPIRABILIDAD (PRESIÓN DIFERENCIAL)

Test Method / Método de ensayo: EN 14683: 2019+AC: 2019 Annex C

Number of test specimens / Número de muestras de ensayo: 5

Number of test per specimen / Número de ensayos por muestra: 5

Sample area tested / Dimensión de la muestra de ensayo: Circular, diameter 2,5 cm/Circular, diametro 2,5 cm

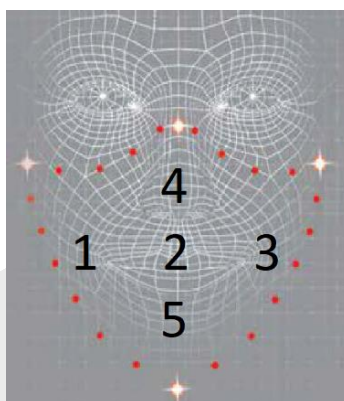
Tested area of the test sample / Tamaño del área sometida a ensayo: 4,9 cm²

Flow rate during testing / Caudal de aire: 8±0,6 l/min

General location of measurement areas / Ubicación general de las áreas de medición: Representative of the overall surface / Representativos de toda la superficie

Conditioning / Acondicionamiento: T^a between 16,7°C and 26 °C. RH between 82,8% and 88 % during at least 4 h. / T^a entre 16,7°C y 26 °C. HR entre 82,8% y 88% durante al menos 4 h.

Airflow direction during testing / Dirección del flujo de aire durante el ensayo: From the inner layer to the outer layer / Desde la capa interior hasta la capa exterior.



Results original sample / Resultados muestra original

Specimen Probeta	Units / Unidades (Pa)						ΔP (Pa/cm ²)
	Position Posición 1	Position Posición 2	Position Posición 3	Position Posición 4	Position Posición 5	Mean value Valor medio (Pa)	
1	123	138	122	130	139	130	26,6
2	158	152	155	143	145	151	30,7
3	135	177	165	188	165	166	33,9
4	164	192	174	193	189	182	37,2
5	129	176	170	167	169	162	33,1
						Mean Value Media	32,3
						Uncertainty Incertidumbre	± 2,4

Results after 20 wash cycles with bleach / Resultados tras 20 ciclos de lavado con lejía

Specimen Probeta	Units / Unidades (Pa)						ΔP (Pa/cm ²)
	Position Posición 1	Position Posición 2	Position Posición 3	Position Posición 4	Position Posición 5	Mean value Valor medio (Pa)	
1	217	252	275	258	277	256	52,2
2	253	269	272	255	263	262	53,6
3	280	271	282	229	267	266	54,2
4	237	268	259	246	240	250	51,0
5	230	251	256	259	261	251	51,3
						Mean Value Media	52,5
						Uncertainty Incertidumbre	± 1,9

Observation / Observación:

For thick and rigid masks the test method may not be suitable as a proper seal cannot be maintained in the sample holder. / Para mascarillas gruesas y rígidas, el método de ensayo puede no ser adecuado dado que no se pueden mantener un sello apropiado en el soporte de la muestra.

MINIMUM REQUIREMENTS FOR COMMUNITY FACE COVERING ACCORDING TO CWA 17553:2020
REQUISITOS MÍNIMOS PARA COBERTORES FACIALES COMUNITARIOS BASADOS EN LA NORMA CWA 17553:2020

Tests Ensayos	Acceptance criteria Criterio de aceptación	
Bacterial filtration efficiency (BFE), (%) (EN 14683: 2019 + AC: 2019 Section 5.2.2) Eficacia de filtración bacteriana (BFE), (%) (EN 14683: 2019 + AC: 2019 Sección 5.2.2)	Level 90% ≥ 90%	Level 70% ≥ 70%
Breathability (Differential pressure), (Pa/cm ²) (EN 14683: 2019 + AC: 2019 Section 5.2.3) Respirabilidad (Presión diferencial) (Pa/cm ²) (EN 14683: 2019 + AC: 2019 Sección 5.2.3)	< 70	