

Bellaterra, 31st July, 2020
File number: **20/ 23106 - 1504**
Applicant: CREACIONES AROMÁTICAS INDUSTRIALES, S.A.
Pol. Ind. Can Llobet
Carrer de Josep Cuatrecasas i Arumí, 2
08192 Sant Quirze del Vallès (Barcelona - Spain)

Date of material delivery: 20th July, 2020
Date of testing: 23rd to 30th July, 2020

TEST REPORT

corresponding to *Non-reusable hygienic face masks*

ISSUE REQUESTED

Partial tests indicated in the application form, according to prescriptions of standard cited below:

- Specification UNE 0064-1: 2020 "Non-reusable hygienic face masks. Requirements of materials, design, manufacturing, marking and use. Part 1: For using in adults"

SAMPLES (information reported by the Applicant)

Sampling

Product: scent spray ref. CAR-MASK-STRW-1

Date: July 2020

Responsible: CARINSA

Sample description

FACE MASK DESCRIPTION	Identification A+
3 layers of material Type: surgical IIR	20/38652
	

SCHEDULE OF THE TESTS (only the requested tests are indicated)

Specification UNE 0064-1 Table 1	Sample ref. 20/38652	Number of samples used in tests
EN 14683 Clause 5.2.2 & Annex B: [1] Bacterial filtration efficiency (BFE)	X	5
EN 14683 Clause. 5.2.3 & Annex C: Breathability (Differential pressure)	X	5

[1] Test carried out in a collaborating centre: AQUIMISA

REQUIRED REQUIREMENTS

According to table 1 of the standard UNE 0064-1, the limit established for each of the tests is:

Specification UNE 0064-1 Table 1		Limit
BFE	(%)	≥ 95
Differential pressure	Pa/cm ²	< 60

TEST RESULTS

The result obtained in the samples tested is indicated below, as the average value of the partial values in each of the tests.

Specification UNE 0064-1 Standard EN 14683			Sample ref. 20/38652	
			Without odorant [*]	With odorant
Clause 5.2.2	Bacterial filtration efficiency (BFE)	[%]	99 ± 1	98 ± 1
Clause 5.2.3	Breathability (Differential pressure)	[Pa/cm ²]	50 ± 2	51 ± 2

Remark.- The odorant has been applied once to the surface of the mask, as indicated by the petitioner.

Remark [*].- These results had previously been obtained in samples belonging to the laboratory.

Primary results

A) Bacterial filtration efficiency (BFE)

Sample ref.:	Sample nm.1	Sample nm.2	Sample nm.3	Sample nm.4	Sample nm.5
	BFE [%]				
20/38652 with odorant	96	98	98	98	99

B) Breathability (Differential pressure)

Sample ref.:		Sample nm.1	Sample nm.2	Sample nm.3	Sample nm.4	Sample nm.5
20/38652						
with odorant		[Pa]				
Breathability	(1)	224	179	221	254	240
	(2)	375	282	269	263	273
	(3)	224	251	212	257	194
	(4)	315	232	235	381	289
	(5)	181	263	198	250	230
	MEDIA	263,8	241,4	227,0	281,0	245,2
ΔP	[Pa/cm ²]	53,8	49,3	46,3	57,3	50,0

Test conditions

A) Bacterial filtration efficiency (BFE)

Number of samples	5 units
Dimensions of test sample	10 cm x 10 cm
Size of the area under test	50 cm ²
Position of test sample	Internal face towards the inoculating spray
Environmental test conditions	T= 21 °C / RH= 80 %
Test control unit	Andersen Cascade Impactor of 6-steps
Air flow	28,3 l/min
Test microorganism	Staphylococcus aureus ATTC6538
Bacterial suspension (inoculum)	1.7 x 10 ³ y 3 x 10 ³ CFU/ml
Incubation conditions	20-52 h to (37 ± 2)°C
Test duration	2 min / test sample

B) Breathability (Differential pressure)

Number of samples	5 units
Number of repetitions per sample	5
Size of the area under test	Ø 25 mm
Environmental temperature	(22 ± 2)° C
Test control unit	Mass flow meter
Air flow	(8 ± 0,2) l/min

Laboratory Technician: Marc Parera

Signed by

Technical Manager
Product Conformity B.U.
LGAI Technological Center, S.A.(APPLUS)

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The results refer exclusively to the sample, product or materials received in the laboratory, as indicated in the section pertaining to the description of the material received, and tested in the conditions described in this test report.

LGAI Technological Center, S.A. is not responsible for the documentation and / or information provided by the manufacturer.

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