



TEST REPORT

2020EC4256

DATE OF RECEPTION 05/10/2020

DATE TESTS

Starting: 17/11/2020 Ending: 18/11/2020 **APPLICANT**

GOOD MASK s.r.o.

Att. Martin Ladyr

IDENTIFICATION AND DESCRIPTION OF SAMPLES

REFERENCES

GOOD MASK GM2 respirator

Description:

Particle filtering half mask without exhalation valve covering nose, mouth and chin, white colour

TESTS CARRIED OUT

- VISUAL INSPECTION.
- PRACTICAL BEHAVIOR.
- FILTER PENETRATION WITH SODIUM CHLORIDE.
- CO2 CONTENT IN INHALED AIR.
- BREATHING RESISTANCE.

DESCRIPTION OF SAMPLES

PHOTOGRAPHY

Reference

GOOD MASK GM2 respirator





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VISUAL INSPECTION

Reference

GOOD MASK GM2 respirator

Standard

EN 149:2001 + A1:2009

N.A.: does not apply

Requirements of visual inspection to evaluate the filtering half mask against particles according to standard EN 149:2001 + A1:2009.

Packing (Requirement according to the point 7.4)	
Filtering half mask shall be packaged to protect them from mechanical damage, thermal and contaminant conditions during storage.	N.E.

Materials (Requirement according to the point 7.5)	
The materials used shall withstand handling and use during the period of time for which the half-mask filter has been designed, and it shall not constitute a danger or damage to the user.	PASS
Any material in the filter that is released by the passage of the air flow through the filter shall not be a danger or damage to the user.	PASS

Finished of parts (Requirement according to the point 7.8)		
Parts of the equipment that can come into contact with the user shall not have sharp edges or burrs.	PASS	

Exhalation valve (Requirement according to the point 7.15)	
If an exhalation valve is available, it shall be protected against dirt and mechanical damage and shall include any other device necessary to meet the requirements for	N.A.
leakage into the interior.	N.A.

Removable parts (Requirement according to the point 7.18)	
All removable parts (if any) shall be easily connected and secured and, wherever possible, manually.	N.A.

N.E.: not evaluated

PRACTICAL BEHAVIOR

Standard

EN 149:2001+A1:2009 (point 8.4) modified by RfU PPE-R/02.075.02

Testing conditioning Room 2

Test date	Initial	Final
18/11/2020	24,3 °C / 40,4 %	24,2 °C / 40,3 %

Testing conditioning Room 3

Test date	Initial	Final
18/11/2020	23 °C / 43,5 %	22,9 °C / 44 %

Observation or deviation of the standard

Description of the sample

Particle filtering half mask without exhalation valve covering nose, mouth and chin, white color.

Reference

GOOD MASK GM2 respirator

TESTER	Sample No		
1	1		
Does the respiratory protective device fit well?			
YES			

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Walk test

Results Yes No Does not apply Not Evaluated

Walk for 10 min at	a speed o	f 6 km / h.			Acceptance	by tester
			contact with the uh the user's skin s			
irritation	or	other	adverse		alth	effects.
The user has not mask have not irri			dges. The material	s of the	YE	ES
The head harness	shall be d	esigned so that it	can be easily put of	n and ren	noved.	
The tester has be problems.	en able to	put on and take	off his half mask	without	YE	ES .
The head harness shall be adjusted or self-adjusted and hold the full facepiece in its position firmly and comfortably.						
The half mask has	been easi	ly adjusted.			YE	S
The filtering half n	nask has n	ot hindered the fi	eld of vision during	its use.		
The user's vision	has not be	en hindered.			YE	S
The filter half mas	k has a go	od facial seal dur	ing use.			
The half mask has	been mai	ntaining a good fa	aceseal.		YE	S
Other comments.				,		

Work simulation test

Results Yes No Does not apply Not Evaluated

Walking for 5 min.at a free height of $(1,3 \pm 0,2)$ m; (1.3 ± 0.2) m; (1.3 ± 0.2) m; Crawling on all fours for 5 min. at a free height of $(0,7 \pm 0,05)$ m.; and Filling a 1.5 m hopper, about 20 times.	Acceptance by tester
The finishing of filtering half mask that are in contact with the user must and burr. Materials likely to be in contact with the user's skin shall not printation or other adverse health effects.	
The user has not suffered any damage by edges. The materials of the mask have not irritated the user.	YES
The head harness shall be designed so that it can be easily put on and re	moved.
The tester has been able to put on and take off his half mask without problems.	YES
The head harness shall be adjusted or self-adjusted and hold the full fafirmly and comfortably.	
The half mask has been easily adjusted.	YES
The filtering half mask has not hindered the field of vision during its use.	
The user's vision has not been hindered.	YES
The filter half mask has a good facial seal during use.	
The half mask has been maintaining a good faceseal.	YES
Other comments.	

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Requirements to be met according to EN 149:2001+A1:2009, point 7.7 and according to RfU PPE-R / 02.075.02

The respiratory protective equipment shall not have imperfections related to user acceptance.

Requirement added RfU PPE-R/02.075.02: During the practical performance test, the test subject should pay particular attention to the ability of the product to maintain a good faceseal. If the wearer observes that a good faceseal is not maintained, they shall be instructed to readjust the filtering half mask according to the user instructions. Should the test subject experience further difficulties with maintaining a good faceseal during the practical performance test, the filtering half mask shall be considered unsatisfactory.

practical performance test, the filtering half mask shall be considered unsatisfactory.		
The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines,		
25 B – 03801 Alcoy (Alicante).		

FILTER PENETRATION WITH SODIUM CHLORIDE

Standard

EN 149:2001+A1:2009 (point 8.11) modified by RfU PPE-R/02.075.02

Apparatus

Sodium chloride penetration equipment

Testing conditioning

Test date	Initial	Final
17/11/2020	22 °C / 54,3 %	23 °C / 55 %

Sample Conditioning

• As received

Observation or deviation of the standard

Description of the sample

Particle filtering half mask without exhalation valve covering nose, mouth and chin, white color.

Test uncertainty

The expanded uncertainty is ± 15% of the value of the measured for a probability of coverage of 95%.

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Reference

GOOD MASK GM2 respirator

Sodium chloride penetration test (3,5 min)				
Sample No. Average value of penetration %				
1 1,74				
2 1,64				
3	1,50			

Exposure to 120mg of sodium chloride				
Sample No. Max. value of penetration				
1 1,8				
2	2,0			
3 1,9				

The test was	carried out at	APPE Laboratory	located at Po	olígono Industria	l Santiago Payá (C/ Filá Be	enimerines,
25 B - 03801	Alcoy (Alicanto	e).					

CO₂ CONTENT IN INHALED AIR

Standard

EN 149:2001+A1:2009 (point 8.7)

Apparatus

Dynamic Breathing equipment, Sheffield test head, Measured CO₂ flow and CO₂ analyzer.

Testing conditioning

Test date	Test date Initial	
18/11/2020	24,1 °C / 41,1 %	24,2 °C / 41,3 %

Observation or deviation of the standard

Description of the sample

Particle filtering half mask without exhalation valve covering nose, mouth and chin, white color.

Test uncertainty

The expanded uncertainty is ± 12% of the value of the measured for a probability of coverage of 95%.

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Reference

GOOD MASK GM2 respirator

Sample No	Average value of CO ₂ contained in inhaled air
	(%)
1	0,83
2	0,78
3	0,62
Average	0,74

Requirements to be met according to EN 149:2001+A1:2009, point 7.12.

Carbon dioxide content in inhalation air (dead space) should not exceed an average of 1.0% (by volume).

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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BREATHING RESISTANCE

Standard

EN 149:2001+A1:2009 (point 8.9) modified by RfU PPE-R/02.075.02

Apparatus

Sheffield test head, constant breathing equipment and digital flowmeter

Testing conditioning

Test date	Initial	Final
17/11/2020	23 °C / 46,3 %	22,9 °C / 46,5 %

Sample Conditioning

• As received

Observation or deviation of the standard

Description of the sample

Particle filtering half mask without exhalation valve covering nose, mouth and chin, white color.

Test uncertainty

The expanded uncertainty is ± 10% of the value of the measured for a probability of coverage of 95%.

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Reference

GOOD MASK GM2 respirator

Sample No.	Resistance to inhalation (30l/min) mbar	Resistance to inhalation (95l/min) mbar
1	0,54	2,10
2	0,50	1,95
3	0,42	1,75

Resistance to exhalation (160l/min) mbar					
Sample No. Forward Upwards Down Towards the left side Towards the right side					Towards the right side
1	2,47	2,49	2,51	2,49	2,49
2	2,34	2,35	2,39	2,40	2,40
3	2,47	2,49	2,51	2,51	2,51

Requirements to be met according to RfU PPE-R/02.075.02

Maximum resistance permitted (mbar)						
Classification(*) Inhalation 30I/min Inhalation 95I/min Exhalation 160I/min						
FFP2	0,7	2,4	3,0			
FFP3 1,0 3,0 3,0						

(*) The levels FFP2 or FFP3 are guidance parameters from the standard EN 149: 2001 + A1: 2009, not applicable for RfU PPE-R/02.075.02 since the final validity for COVID 19 certification method is according to a PASS / NOT PASS.

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

Israel Soriano Head of Advance Personal Protective Equipment Lab.



Digitally signed by SANTIAGO GARCIA SANTONJA - NIF:15420772P Date: 2020.11.18 11:20:30 +01:00 Reason: Autorizado Location: Alcov

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