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Tests Report no. CL/WBO/88/2020

Testing Laboratory

Polski Rejestr Statków S.A.

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REPORT No CL/WBO/88/2020

Respiratory protective device – Filtering half
mask to protect against particles
model: CARE 1986V (class FFP3 NR)
Test of filtering half masks FFP3 NR

(Product / object of research)



Issue date: 2020-10-23

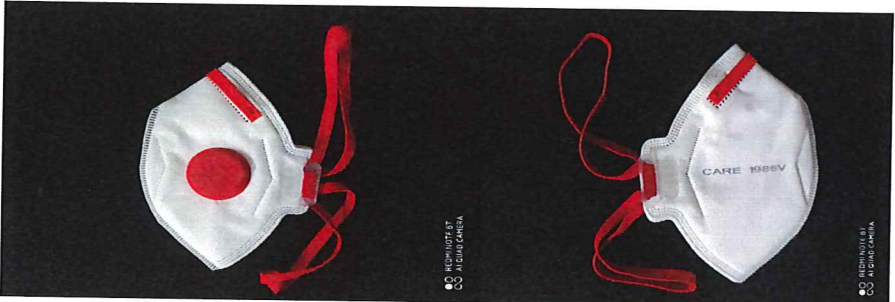
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Testing Laboratory, Polish Register of Shipping S.A., al. gen. Józefa Hallera 126, 80-416 Gdańsk

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1. Name and address of the applicant:	
2. Location of performed testing:	Testing Laboratory Polski Rejestr Statków S.A. al. Gen. Józefa Hallera 126, 80-416 Gdańsk, Poland
3. Object/product description and identification of testing:	CONTRACT NO. 856/2020
3.1 Name of objects/products:	Respiratory protective device – Filtering half mask to protect against particles model: CARE 1986V 
3.2 Manufacturer:	
3.4 Number of objects/products/samples:	PRS Laboratory numbers: 001/NACL/856/2020, 002/NACL/856/2020, 003/NACL/856/2020, 004/NACL/856/2020, 005/NACL/856/2020, 006/NACL/856/2020, 007/NACL/856/2020, 008/NACL/856/2020, 009/NACL/856/2020, 001/BR/856/2020, 002/BR/856/2020, 003/BR/856/2020, 004/BR/856/2020, 005/BR/856/2020, 006/BR/856/2020, 007/BR/856/2020, 008/BR/856/2020, 009/BR/856/2020, 010/BR/856/2020, 011/BR/856/2020, 012/BR/856/2020
4. Person / company ordering and financing the tests	
5. Form and date of the order tests	Email: miroslaw.klimek@prs.pl 2020-10-19
6. Objects/products/samples date of receipt and place for testing:	2020-10-19, Gdańsk Testing Laboratory

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7. Date of performed testing:	2020-10-19 - 2020-10-23
8. Laboratory equipment used for testing:	Mask breathing resistance tester BK-ZL-A Particle filter efficiency tester BK-GLXL-A Face mask mechanical strength tester ZX 8030 Face mask simulated wearing treatment Temperature conditioning; temperature recorder TESTO 177-T4 01719437/908, heating chamber PRS - 452 127 419, freezing chamber PRS - 801 227 414, Weather station No. 1/2013,
9. Testing instruction/procedure number/standard:	Test methodology in accordance with the PN-EN 149+A1:2010 standard and laboratory test procedure: PCLB-8 Procedura badań masek EN 149 edycja 1 z dnia 2020-08-13
10. Scope of test:	<ul style="list-style-type: none">• penetration of sodium chloride method of test in accordance with EN 13274-7:2008 requirements in accordance with EN 149:2001 + A1:2009• breathing resistance method of test in accordance with EN 13274-3:2001 requirements in accordance with EN 149:2001 + A1:2009 Before tests according to requirements of the standard, filtering half masks were submitted to: <ul style="list-style-type: none">• mechanical strength test according to 8.3.3 of EN 149:2001 + A1:2009• temperature conditioning according to 8.3.2 of EN 149:2001 + A1:2009• simulated wearing treatment according to 8.3.1 of EN 149:2001 + A1:2009• flow conditioning according to 8.3.4 of EN 149:2001 + A1:2009
11. Declaration	The test results concern only the behavior of the tested product samples under specific test conditions.
12. Report NO	CL/WBO/88/2020
13. Environmental factors for penetration test	Temperature – 21,5 °C
14. Name and surname of the Guide	Wojciech Pytlak



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15. Test results:

15.1 Penetration of filter material according to EN 149 point 8.11 (Penetration of NaCl in accordance with EN 13274-7 :2008 [%] Flow rate 95 l/min)

Table 1 – test results of Penetration of filter material for CARE 1986V

Requirements in accordance with EN 149:2001 + A1:2009				
Maximum penetration of test aerosol [%] Flow rate 95 l/min				
FFP1 max. 20 [%]				
FFP2 max. 6 [%]				
FFP3 max. 1 [%]				
No.	Sample No.	Condition	Penetration [%]	Test result Positive/Negative
1	001/ NaCl /856/2020	AR	0,653	Positive
2	002/ NaCl /856/2020	AR	0,848	Positive
3	003/ NaCl /856/2020	AR	0,956	Positive
4	004/ NaCl /856/2020	SW	0,772	Positive
5	005/ NaCl /856/2020	SW	0,195	Positive
6	006/ NaCl /856/2020	SW	0,270	Positive
7	007/ NaCl /856/2020	TC, MS	0,064	Positive
8	008/ NaCl /856/2020	TC, MS	0,098	Positive
9	009/ NaCl /856/2020	TC, MS	0,568	Positive

AR - As received, SW – Simulated wearing treatment, TC – Temperature conditioning, MS – Mechanical Strength, FC – Flow conditioning.

15.2 Breathing Resistance according to EN 149 point 8.9 (method of the test according to EN 13274-3:2001)

Table 2 – test results of inhalation resistance in constant flow measurements for CARE 1986V

Requirements in accordance with EN 149:2001 + A1:2009							
Inhalation resistance [Pa]							
No.	Sample No.	Condition	Flow rate 0,5 dm ³ s ⁻¹ (30l /min)	Requirements in accordance with EN 149:2001 + A1:2009 (30l/min)	Flow rate 1,6 dm ³ s ⁻¹ (95l /min)	Requirements in accordance with EN 149:2001 + A1:2009 (95l/min)	Test result Positive/Negative
1	001/BR/856/2020	AR	49,9	FFP1 ≤ 60 [Pa] FFP2 ≤ 70 [Pa] FFP3 ≤ 100 [Pa]	179,5	FFP1 ≤ 210 [Pa] FFP2 ≤ 240 [Pa] FFP3 ≤ 300 [Pa]	Positive
2	002/BR/856/2020	AR	46,1		174,7		Positive
3	003/BR/856/2020	AR	46,5		177,3		Positive
4	004/BR/856/2020	SW	40,4		186,2		Positive
5	005/BR/856/2020	SW	53,1		173,0		Positive
6	006/BR/856/2020	SW	52,5		179,1		Positive
7	007/BR/856/2020	TC	57,3		198,7		Positive
8	008/BR/856/2020	TC	45,6		202,8		Positive
9	009/BR/856/2020	TC	51,6		191,5		Positive
10	010/BR/856/2020	FC	57,1		177,5		Positive
11	011/BR/856/2020	FC	51,5		192,7		Positive
12	012/BR/856/2020	FC	47,2		196,6		Positive

AR - As received, SW – Simulated wearing treatment, TC – Temperature conditioning, MS – Mechanical Strength, FC – Flow conditioning.



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Table 3 – test results of exhalation resistance in constant flow measurements for CARE 1986V

No.	Sample No.	Condition	Flow rate $2,7\text{dm}^3\text{s}^{-1}$ (160l /min)	The dummy head position	Requirements in accordance with EN 149:2001 + A1:2009	Test result Positive/Negative
1	001/BR/856/2020	AR	147,2	1. Facing directly ahead	FFP1 ≤ 300 [Pa] FFP2 ≤ 300 [Pa] FFP3 ≤ 300 [Pa]	Positive
			174,2	2. Facing vertically upwards		
			168,9	3. Facing vertically downwards		
			159,7	4. Lying on the right		
			152,7	5. Lying on the left		
2	002/BR/856/2020	AR	151,7	1. Facing directly ahead		
			152,4	2. Facing vertically upwards		
			155,9	3. Facing vertically downwards		
			166,2	4. Lying on the right		
			152,2	5. Lying on the left		
3	003/BR/856/2020	AR	137,4	1. Facing directly ahead		
			156,9	2. Facing vertically upwards		
			153,9	3. Facing vertically downwards		
			152,2	4. Lying on the right		
			141,2	5. Lying on the left		
4	004/BR/856/2020	SW	177,9	1. Facing directly ahead	FFP1 ≤ 300 [Pa] FFP2 ≤ 300 [Pa] FFP3 ≤ 300 [Pa]	Positive
			177,7	2. Facing vertically upwards		
			155,9	3. Facing vertically downwards		
			135,4	4. Lying on the right		
			149,4	5. Lying on the left		
5	005/BR/856/2020	SW	150,2	1. Facing directly ahead		
			143,9	2. Facing vertically upwards		
			130,2	3. Facing vertically downwards		
			131,4	4. Lying on the right		
			141,2	5. Lying on the left		
6	006/BR/856/2020	SW	142,7	1. Facing directly ahead		
			156,4	2. Facing vertically upwards		
			147,7	3. Facing vertically downwards		
			125,9	4. Lying on the right		
			153,7	5. Lying on the left		
7	007/BR/856/2020	TC	155,4	1. Facing directly ahead	FFP1 ≤ 300 [Pa] FFP2 ≤ 300 [Pa] FFP3 ≤ 300 [Pa]	Positive
			152,4	2. Facing vertically upwards		
			145,4	3. Facing vertically downwards		
			167,9	4. Lying on the right		
			163,7	5. Lying on the left		
8	008/BR/856/2020	TC	152,2	1. Facing directly ahead		
			178,4	2. Facing vertically upwards		
			164,9	3. Facing vertically downwards		
			159,7	4. Lying on the right		
			152,7	5. Lying on the left		
9	009/BR/856/2020	TC	149,9	1. Facing directly ahead		
			143,4	2. Facing vertically upwards		
			150,7	3. Facing vertically downwards		
			159,4	4. Lying on the right		
			170,7	5. Lying on the left		



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10	010/BR/856/2020	FC	146,9	1. Facing directly ahead	FFP1 ≤ 300 [Pa] FFP2 ≤ 300 [Pa] FFP3 ≤ 300 [Pa]	Positive		
			143,7	2. Facing vertically upwards				
			142,7	3. Facing vertically downwards				
			138,2	4. Lying on the right				
			155,4	5. Lying on the left				
11	011/BR/856/2020	FC	168,7	1. Facing directly ahead		FFP1 ≤ 300 [Pa] FFP2 ≤ 300 [Pa] FFP3 ≤ 300 [Pa]	Positive	
			185,2	2. Facing vertically upwards				
			154,7	3. Facing vertically downwards				
			162,4	4. Lying on the right				
			157,9	5. Lying on the left				
12	012/BR/856/2020	FC	158,9	1. Facing directly ahead			FFP1 ≤ 300 [Pa] FFP2 ≤ 300 [Pa] FFP3 ≤ 300 [Pa]	Positive
			163,9	2. Facing vertically upwards				
			158,4	3. Facing vertically downwards				
			172,2	4. Lying on the right				
			164,7	5. Lying on the left				

AR - As received, SW - Simulated wearing treatment, TC - Temperature conditioning, MS - Mechanical Strength, FC - Flow conditioning.

16. The name of the representative of the Notified Body in whose presence the tests were carried out.
Miroslaw Klimek- Products and Persons Certification Bureau Expert

17. Annexes:
No Annexes

18. Report written by: Wojciech Pytlak

(podpis)

POLSKI REJESTR STATKÓW S.A.

Manager

of Testing Laboratory

19. Report authorized by: Władysław Bogdanowicz

(podpis)

END OF REPORT

C.C.:

1. Copy no 1 - Client,
2. ~~Copy no 2 - Testing Laboratory PRS,~~