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Tests Report no. CL/WBO/127/2020			

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REPORT No CL/WBO/127/2020

Respiratory protective device – Filtering half
mask to protect against particles
model: ABJ-300FC (class FFP3 NR)

Test of filtering half masks FFP3 NR

(Product / object of research)





Issue date: 2020-12-04

Copy no.: 1

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1. Name and address of the applicant:	PRODUCT AND PERSONS CERTIFICATION BUREAU (CW) PRS.S.A. al. Gen. Józefa Hallera 126, 80-416 Gdańsk.
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. 975/2020
3.1 Name of objects/products:	Respiratory protective device – Filtering half mask to protect against particles model: ABJ-300FC (class FFP3 NR) 
3.2 Manufacturer:	Chongqing Aibeijian Medical Technology Co., Ltd. No. 12 Shigui Street, Jieshi Town, Banan District, Chongqing, China.
3.4 Number of objects/products/samples:	PRS Laboratory numbers: 001/NACL/975/2020, 002/NACL/975/2020, 003/NACL/975/2020, 004/NACL/975/2020, 005/NACL/975/2020, 006/NACL/975/2020, 007/NACL/975/2020, 008/NACL/975/2020, 009/NACL/975/2020, 001/BR/975/2020, 002/BR/975/2020, 003/BR/975/2020, 004/BR/975/2020, 005/BR/975/2020, 006/BR/975/2020, 007/BR/975/2020, 008/BR/975/2020, 009/BR/975/2020, 010/BR/975/2020, 011/BR/975/2020, 012/BR/975/2020,
4. Person / company ordering and financing the tests	PRODUCT AND PERSONS CERTIFICATION BUREAU (CW) PRS.S.A. al. Gen. Józefa Hallera 126, 80-416 Gdańsk.
5. Form and date of the order tests	Email: mirosław.klimek@prs.pl 2020-11-15
6. Objects/products/samples date of receipt and place for testing:	2020-11-16, Gdańsk Testing Laboratory

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

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7. Date of performed testing:	2020-11-26 - 2020-12-04
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 ZX 2003AS 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 Test procedure EN 149 edition 1 from 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 <p>Before tests according to requirements of the standard, filtering half masks were submitted to:</p> <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/127/2020
13. Environmental factors for penetration test	Temperature – 22,7 °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 ABJ-300FC (class FFP3 NR)

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 /975/2020	AR	0,106	Positive
2	002/ NaCl /975/2020	AR	0,029	Positive
3	003/ NaCl /975/2020	AR	0,059	Positive
4	004/ NaCl /975/2020	SW	0,177	Positive
5	005/ NaCl /975/2020	SW	0,070	Positive
6	006/ NaCl /975/2020	SW	0,184	Positive
7	007/ NaCl /975/2020	TC, MS	0,095	Positive
8	008/ NaCl /975/2020	TC, MS	0,170	Positive
9	009/ NaCl /975/2020	TC, MS	0,201	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 ABJ-300FC (class FFP3 NR)

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/975/2020	AR	24,0	FFP1 ≤ 60 [Pa] FFP2 ≤ 70 [Pa] FFP3 ≤ 100 [Pa]	157,7	FFP1 ≤ 210 [Pa] FFP2 ≤ 240 [Pa] FFP3 ≤ 300 [Pa]	Positive
2	002/BR/975/2020	AR	24,6		161,9		Positive
3	003/BR/975/2020	AR	22,4		168,6		Positive
4	004/BR/975/2020	SW	25,3		182,3		Positive
5	005/BR/975/2020	SW	23,7		172,2		Positive
6	006/BR/975/2020	SW	26,8		143,1		Positive
7	007/BR/975/2020	TC	22,2		169,9		Positive
8	008/BR/975/2020	TC	25,4		169,2		Positive
9	009/BR/975/2020	TC	24,7		179,0		Positive
10	010/BR/975/2020	FC	25,0		145,0		Positive
11	011/BR/975/2020	FC	23,9		172,0		Positive
12	012/BR/975/2020	FC	25,0		168,2		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 ABJ-300FC (class FFP3 NR)

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/975/2020	AR	132,4	1. Facing directly ahead	FFP1 ≤ 300 [Pa] FFP2 ≤ 300 [Pa] FFP3 ≤ 300 [Pa]	Positive
			145,9	2. Facing vertically upwards		
			121,9	3. Facing vertically downwards		
			136,4	4. Lying on the right		
			119,9	5. Lying on the left		
2	002/BR/975/2020	AR	144,4	1. Facing directly ahead		
			133,9	2. Facing vertically upwards		
			143,2	3. Facing vertically downwards		
			137,2	4. Lying on the right		
			157,9	5. Lying on the left		
3	003/BR/975/2020	AR	139,7	1. Facing directly ahead		
			148,4	2. Facing vertically upwards		
			154,9	3. Facing vertically downwards		
			130,9	4. Lying on the right		
			153,7	5. Lying on the left		
4	004/BR/975/2020	SW	144,4	1. Facing directly ahead	FFP1 ≤ 300 [Pa] FFP2 ≤ 300 [Pa] FFP3 ≤ 300 [Pa]	Positive
			133,9	2. Facing vertically upwards		
			143,2	3. Facing vertically downwards		
			137,2	4. Lying on the right		
			157,9	5. Lying on the left		
5	005/BR/975/2020	SW	142,4	1. Facing directly ahead		
			155,2	2. Facing vertically upwards		
			139,4	3. Facing vertically downwards		
			148,4	4. Lying on the right		
			154,7	5. Lying on the left		
6	006/BR/975/2020	SW	136,2	1. Facing directly ahead		
			162,2	2. Facing vertically upwards		
			143,9	3. Facing vertically downwards		
			147,4	4. Lying on the right		
			141,7	5. Lying on the left		
7	007/BR/975/2020	TC	161,2	1. Facing directly ahead	FFP1 ≤ 300 [Pa] FFP2 ≤ 300 [Pa] FFP3 ≤ 300 [Pa]	Positive
			162,2	2. Facing vertically upwards		
			145,7	3. Facing vertically downwards		
			164,7	4. Lying on the right		
			155,9	5. Lying on the left		
8	008/BR/975/2020	TC	136,9	1. Facing directly ahead		
			133,4	2. Facing vertically upwards		
			126,4	3. Facing vertically downwards		
			146,2	4. Lying on the right		
			125,4	5. Lying on the left		
9	009/BR/975/2020	TC	142,4	1. Facing directly ahead		
			164,7	2. Facing vertically upwards		
			155,7	3. Facing vertically downwards		
			129,9	4. Lying on the right		
			162,4	5. Lying on the left		



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10	010/BR/975/2020	FC	161,7	1. Facing directly ahead	FFP1 ≤ 300 [Pa] FFP2 ≤ 300 [Pa] FFP3 ≤ 300 [Pa]	Positive
			161,9	2. Facing vertically upwards		
			155,8	3. Facing vertically downwards		
			163,9	4. Lying on the right		
			160,8	5. Lying on the left		
11	011/BR/975/2020	FC	153,9	1. Facing directly ahead	FFP1 ≤ 300 [Pa] FFP2 ≤ 300 [Pa] FFP3 ≤ 300 [Pa]	Positive
			138,4	2. Facing vertically upwards		
			149,2	3. Facing vertically downwards		
			135,9	4. Lying on the right		
			148,4	5. Lying on the left		
12	012/BR/975/2020	FC	139,9	1. Facing directly ahead	FFP1 ≤ 300 [Pa] FFP2 ≤ 300 [Pa] FFP3 ≤ 300 [Pa]	Positive
			140,4	2. Facing vertically upwards		
			131,7	3. Facing vertically downwards		
			134,2	4. Lying on the right		
			145,4	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)

19. Report authorized by: Władysław Bogdanowicz

(podpis)

END OF REPORT

C.C.:

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