

Client: ADVANCED MEDICAL DEVICES (AMD) PTY LTD
 3/4 - 8 Inglewood Place,
 Baulkham Hills NSW 2153 Australia

Test Report Number: 220961

Testing Requested By: Arihiro Yamada

Client's Order Number: Not Supplied

Date Samples Received: 30/09/2022

Date Testing Completed: 12/10/2022

Sample Description: Model N4HM, Batch Number: AE120922L, Marking printed: P2, AS/NZS 1716:2012, BMP 739909, Size: M, AMD, EXP: 120925L, 150 pieces individually wrapped supplied in 3 boxes of 50 pieces per box, Single use only, Half facepiece, Tri-fold particulate respirator, Internal metal nose clip, Twin head loop, Samples as supplied.



Testing Requested:

Resistance to penetration by synthetic blood, minimum pressure in mm Hg, as required by AS 4381:2015 using Test method ASTM F1862/F1862M-17



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The results are applicable to the sample tested and may not apply to other batches of the same material or similar materials.

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AUTHORISED SIGNATORY:

R.A. Vickery

Legend:

NA = Not Applicable

NT = Not Tested

NS = Not Supplied

TBA = To Be Ascertained

Document name: Differential Pressure



Test Report Number: 220961

Summary of Testing and Results:

Resistance to penetration by synthetic blood, minimum pressure in mm Hg, as per ASTM F1862/F1862M-17

Summary: This procedure was performed to evaluate surgical facemasks and other types of protective clothing materials designed to protect against fluid penetration. The purpose of this procedure is to simulate an arterial spray and evaluate the effectiveness of the test article in protecting the user from possible exposure to blood and other body fluids. The distance from the target area surface to the tip of the cannula is 30.5cm. A test volume of 2 mL of synthetic blood was employed using the targeting plate method.

This test method was designed to comply with ASTM F1862/F1862M-17 and ISO 22609 (as referenced in AS 4381:2015) Test specimens were tested in ambient conditions within one minute of removal from the conditioning chamber as per ASTM F1862/F1862M-17 Clause 10.1.

 Samples Pre-Conditioned at $21 \pm 5^{\circ}\text{C}$ and $85 \pm 10\%$ relative humidity for a minimum of 4 hours prior to testing.

 Test Conditions: 21.5°C , R.H.69%

Test pressure: 21.3 kPa

General location of the areas of the mask specimens target area: Central area of mask (Zone 1)

General location of the areas of the mask specimens target area: Printed Logo (Zone 2)

General location of the areas of the mask specimens target area: Top Seam (Zone 3)

General location of the areas of the mask specimens target area: Bottom Seam (Zone 4)

Was targeting-plate method used: Yes

Specimen Number	Synthetic Blood Penetration (Zone Result)				Result mm Hg	Pass/Fail
	1	2	3	4		
Zone tested						
1	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
2	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
3	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
4	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
5	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
6	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
7	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
8	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
9	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
10	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass



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Test Report Number: 220961

Summary of Testing and Results:

Resistance to penetration by synthetic blood, minimum pressure in mm Hg, as per ASTM F1862/F1862M-17 continued.

Specimen Number	Synthetic Blood Penetration (Zone Result)				Result mm Hg	Pass/Fail
	1	2	3	4		
11	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
12	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
13	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
14	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
15	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
16	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
17	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
18	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
19	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
20	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
21	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
22	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
23	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
24	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
25	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
26	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
27	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
28	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
29	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
31	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
31	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
32	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass

Highest pressure corresponding to a stream velocity for which an acceptable quality limit of 4.0% -

Samples supplied have achieved Level 3 Barrier Resistance to penetration by synthetic blood requirement.

Resistance to penetration by synthetic blood, minimum pressure in mm Hg requirement as per AS 4381:2015	Level 1 Barrier	Level 2 Barrier	Level 3 Barrier
		80 mm Hg	120 mm Hg

Test Uncertainty:

These uncertainty values are based on a standard uncertainty multiplied by a coverage factor k=2, which provides for a confidence level of approximately 95% - Uncertainty of measurement has not been taken into account when presenting the test result.



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