

ARMBRUST INC

TEST REPORT

SCOPE OF WORK

Performance Testing of Non-Powered Air-Purifying
Particulate Respirators to
42 CFR 84 Subpart K

REPORT NUMBER

104624993CRT-001

ISSUE DATE

March 29, 2021

Revision Date

April 6, 2021

PAGES

5

DOCUMENT CONTROL NUMBER

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TEST REPORT

Issued March 29, 2021
Revised April 6, 2021

Intertek Report No. 104624993CRT-001
Intertek Project No. G104624993

CLIENT

ARMBRUST INC
3813 Helios Way
Building B- Suite 290, TX 78660
USA

TEST STANDARD

42 CFR 82 - Approval of Respiratory Protective Devices
Subpart K - Non-Powered Air-Purifying Particulate Respirators

AUTHORIZATION

Quote Number: Qu-01155505-0

SAMPLES IDENTIFIED BY CLIENT AS

Product Type: Non-Powered Respirator
Brand Name: Armbrust Inc. American made surgical masks
Model Numbers: 3 Ply Disposable Surgical Masks

SAMPLE INFORMATION

Date(s) Samples Received: March 18, 2021
Condition of Samples: Production Run
Date(s) of Testing: March 20, 2021 Through March 23, 2021

TEST INFORMATION

| | |
|--|-------------------------------|
| TEB-APR-STP-0007 Inhalation Resistance Test | Not tested under this project |
| TEB-APR-STP-0003 Exhalation Resistance Test | Not tested under this project |
| TEB-APR-STP-0004 Exhalation Valve Leakage Test | Not tested under this project |
| TEB-APR-STP-0059 N95 Series | Test data attached |
| TEB-APR-STP-0059 N95 Series Modified | Not tested under this project |

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SECTION 1 CONCLUSION

This test report represents the testing covered by proposal number Qu-01155505-0.

The observations and test results in this report are relevant only to the sample tested. Intertek makes no representations or warranties, express or implied, regarding units that were not tested including, but not limited to, units that may be part of the same lot.

If there are any questions regarding the results contained in this report, or any other services offered by Intertek, please do not hesitate to contact the undersigned.

Please note this Test Report does not represent authorization for the use of any Intertek certification marks.

Project Owner: Steven Morey

Title: Technician

Signature: 

Date: April 6, 2021

Project Reviewer: Jason Allen

Title: Technical Advisor

Signature: 

Date: April 6, 2021

REPORT REVISIONS

| Date / Project # | Project Handler/ Reviewer | Description of Change |
|------------------|---------------------------|--|
| 4/6/2021 | Steven Morey/Jason Allen | Added Head form Photo of Mask with Brace |
| | | |
| | | |
| | | |

TEST REPORT

SECTION 3

42 CFR 84.181 PARTICULATE FILTER EFFICIENCY TEST DATA

TEB-APR-STP-0059 N95 Series

Specimens conditioned in accordance with Section 5.2 of Test Procedure

Item Tested: Armbrust Inc. American made surgical masks 3 Ply Disposable Surgical Masks

Aerosol Type: Sodium Chloride (NaCl)

| Specimen | Flow Rate (Lpm) | Initial Filter Resistance (mmH ₂ O) | Max. Allowable Leakage (%) | Initial Leakage (%) | Max. Leakage (%) | Filtration Efficiency (%) | Result |
|----------|-----------------|--|----------------------------|---------------------|------------------|---------------------------|--------|
| 1 | 86.7 | 9.8 | 5.00 | 1.58 | 1.58 | 98.42 | Pass |
| 2 | 86.9 | 9.6 | 5.00 | 1.81 | 1.81 | 98.19 | Pass |
| 3 | 87.0 | 9.1 | 5.00 | 1.59 | 1.59 | 98.41 | Pass |
| 4 | 87.0 | 9.8 | 5.00 | 1.13 | 1.13 | 98.87 | Pass |
| 5 | 87.0 | 10.3 | 5.00 | 1.00 | 1.00 | 99.00 | Pass |
| 6 | 87.0 | 8.8 | 5.00 | 2.44 | 2.44 | 97.56 | Pass |
| 7 | 87.0 | 9.3 | 5.00 | 1.24 | 1.24 | 98.76 | Pass |
| 8 | 87.0 | 10.6 | 5.00 | 1.44 | 1.44 | 98.56 | Pass |
| 9 | 86.9 | 10.1 | 5.00 | 1.30 | 1.30 | 98.70 | Pass |
| 10 | 87.0 | 9.4 | 5.00 | 1.56 | 1.56 | 98.44 | Pass |
| 11 | 87.0 | 9.3 | 5.00 | 1.90 | 1.90 | 98.10 | Pass |
| 12 | 87.0 | 8.8 | 5.00 | 2.72 | 2.72 | 97.28 | Pass |
| 13 | 87.0 | 8.7 | 5.00 | 2.33 | 2.33 | 97.67 | Pass |
| 14 | 87.0 | 9.9 | 5.00 | 1.91 | 1.91 | 98.09 | Pass |
| 15 | 86.8 | 10.2 | 5.00 | 2.22 | 2.22 | 97.78 | Pass |
| 16 | 86.8 | 9.1 | 5.00 | 1.77 | 1.77 | 98.23 | Pass |
| 17 | 86.7 | 10.6 | 5.00 | 1.84 | 1.84 | 98.16 | Pass |
| 18 | 86.7 | 13.1 | 5.00 | 1.29 | 1.29 | 98.71 | Pass |
| 19 | 86.6 | 9.1 | 5.00 | 1.89 | 1.89 | 98.11 | Pass |
| 20 | 86.7 | 8.8 | 5.00 | 1.43 | 1.43 | 98.57 | Pass |

Overall Result: Pass

Date of Testing 3/23/2021

TEST REPORT

TEST EQUIPMENT INFORMATION

| Description | Control Number | Calibration Date | Calibration Due |
|-------------------------|----------------|------------------|-----------------|
| Conditioning Monitor | 308-H323 | 8/25/2020 | 8/25/2021 |
| Timer | 308-H309 | 8/13/2020 | 8/13/2021 |
| Scale | 308-S940 | 8/24/2020 | 8/24/2021 |
| Automated Filter Tester | 308-H387 | VBU | VBU |

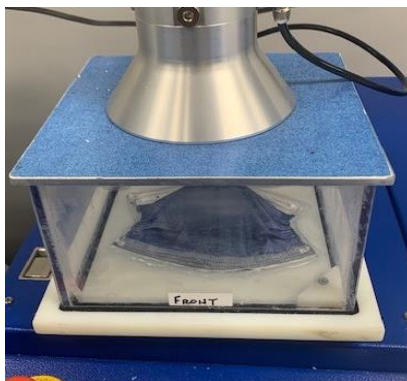
Mask Under Test



Mask with brace on headform



Mounting of Mask



Test Set up

