



National Institute for Occupational Safety and Health  
National Personal Protective Technology Laboratory  
Evaluation and Testing Branch

## TEST REPORT

**Task Number:** TN-22414

**Manufacturer:** Global Safety First

**Prepared by:** Jeremy Brannen

**Date:** November 1, 2018

**Tests Conducted by:** Jeremy Brannen, Nichole Suhon

**Respirator Tested:** N1901L, N1901X, N1902L, N1902X

### Background Information

Respirator tested as per test request.

### Tests Assigned

<u>Test Description</u>	<u>STP Number</u>
A. Exhalation Resistance Test	TEB-APR-STP-0003
B. Inhalation Resistance Test	TEB-APR-STP-0007
C. Evaluation of Novel Head Harness	CVB-63C-STP-0015
D. Sodium Chloride (NaCl) N95 Test	TEB-APR-STP-0059

### Overall Results

The respirator system tested did meet the requirements of all the above procedures.

**National Institute for Occupational Safety and Health  
Respirator Branch  
Test Data Sheet**



**Task Number:** TN-22414

**Reference No.:** CFR 84.180

**Test:** Exhalation Resistance Test

**STP No.:** 3

**Manufacturer:** Global Safety First

**Filter Type:** Filter Only

**Item Tested:** N1901X/N1902X

Sample	Maximum Allowable Resistance (MM of H2O)	Actual Resistance (MM of H2O)	Result
	Exhalation	Exhalation	
1	25	9.4	PASS
2	25	9.7	PASS
3	25	9.9	PASS

**Overall Result:** PASS

**Comments:**

Samples 1 was the N1901X and sample 2 and 3 were the N1902X.

**Was all equipment verified to be in calibration throughout all testing?**



**Yes**



**No**

**Signature:**

**Date:** 10/23/2018

**Engineering Technician**

**National Institute for Occupational Safety and Health  
Respirator Branch  
Test Data Sheet**



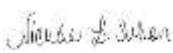
**Task Number:** TN-22414  
**Test:** Inhalation Resistance Test  
**Manufacturer:** Global Safety First  
**Item Tested:** N1901X/N1902X

**Reference No.:** CFR 84.180  
**STP No.:** 7

**Filter Type:** Filter Only

Sample	Maximum Allowable Resistance (MM of H2O)	Actual Resistance (MM of H2O)	Result
	Inhalation	Inhalation	
1	35	10.7	PASS
2	35	11.9	PASS
3	35	11.4	PASS

**Overall Result:** PASS

**Signature:** 

**Date:** 10/23/2018

**Engineering Technician**

**Task Number:** TN-22414  
**Test:** Inhalation Resistance Test  
**Manufacturer:** Global Safety First  
**Item Tested:** N1901X/N1902X

**Reference No.:** CFR 84.180  
**STP No.:** 7

**Comments:**

Samples 1 was the N1901X and sample 2 and 3 were the N1902X.

<b>Was all equipment verified to be in calibration throughout all testing?</b>	<input checked="" type="radio"/> <b>Yes</b>	<input type="radio"/> <b>No</b>
--	---	---------------------------------

**Signature:** 

**Date:** 10/23/2018

**Engineering Technician**

# Novel Head Harness Testing Report

**Task Number: TN 22414**  
**Manufacturer: Global Safety First**  
**Item Tested: N1901L, N1901X, N1902L, N1902X**  
**Minimum Fit Factor: 100**

**CFR Reference No.: 84.63**

Subject	Facesize	Facepiece	Result	
			Trial 1	Trial 2
1820	8	N1902X	PASS	PASS
1828	9	N1901L	PASS	PASS
1825	8	N1902L	PASS	PASS
1811	8	N1901X	PASS	PASS

**Overall Result: PASS**

**Test Operator: Jeremy Brannen**

**Date: October 25, 2018**

**Comments:**

All test subjects were medically cleared for testing. Subjects did the testing per procedure No. CVB-63C-STP-0015.

**Was all equipment verified to be in calibration throughout testing? Yes**

---

**Equipment used in Testing**

Novel Head Harness Testing Report

Name	GAGEPak #		Calibration Due
TSI Portacount	000229		4/16/2020

**National Institute for Occupational Safety and Health**  
**Respirator Branch**  
**Test Data Sheet**



**Task Number:** TN-22414

**Reference No.:** CFR 84.181

**Test:** Sodium Chloride (NaCl) - N95

**STP No.:** 59

**Manufacturer:** Global Safety First

**Item Tested:** N1901L/N1902L

Filter	Flow Rate	Initial Filter Resistance	Maximum Allowable Percent Leakage	Initial Percent Leakage	Maximum Percent Leakage	Result
1	85	5.6	5.00	0.259	0.313	PASS
2	85	14.8	5.00	0.393	0.393	PASS
3	85	15.2	5.00	0.262	0.262	PASS
4	85	11.5	5.00	0.217	0.217	PASS
5	85	14.0	5.00	0.342	0.342	PASS
6	85	9.9	5.00	0.339	0.549	PASS
7	85	12.5	5.00	0.322	0.322	PASS
8	85	10.3	5.00	0.159	0.161	PASS
9	85	8.0	5.00	0.120	0.120	PASS
10	85	10.9	5.00	0.194	0.194	PASS
11	85	8.9	5.00	0.322	0.322	PASS
12	85	10.8	5.00	0.389	0.389	PASS
13	85	11.1	5.00	0.348	0.348	PASS
14	85	14.7	5.00	0.284	0.284	PASS
15	85	13.5	5.00	0.341	0.341	PASS
16	85	13.7	5.00	0.299	0.299	PASS
17	85	11.3	5.00	0.255	0.255	PASS
18	85	7.6	5.00	0.091	0.091	PASS
19	85	11.5	5.00	0.224	0.224	PASS
20	85	12.4	5.00	0.282	0.282	PASS

**Overall Result: PASS**

**Signature:**

**Date:** 10/23/2018

**Engineering Technician**

**Task Number:** TN-22414

**Reference No.:** CFR 84.181

**Test:** Sodium Chloride (NaCl) - N95

**STP No.:** 59

**Manufacturer:** Global Safety First

**Item Tested:** N1901L/N1902L

**Comments:**

Samples 1-10: part number N1902L, tested on TSI 8130 machine 000333. Samples 11-20: part number N1901L, tested on TSI 8130 machine 000333. Only sample 1 was tested using N1900 housing due to the fixture breaking after the first sample.

Was all equipment verified to be in calibration throughout all testing?

Yes

No

**Signature:**

*Justin L. Wilson*

**Date:** 10/23/2018

**Engineering Technician**