

National Institute for Occupational Safety and Health  
Respirator Branch  
Certification, Evaluation and Testing Section

TEST REPORT

Task Number: TN-13809

Prepared by: Pat Wiltanger

Date: December 23, 2004

Manufacturer: Fido Masks Co., Ltd.

Item Tested: Model F710C/V N95 Filtering Facepiece

Background Information:

The National Institute for Occupational Safety and Health (NIOSH) has reviewed your request dated October 15, 2004. This request was for approval of the model F710C/V N95 filtering facepiece respirator with an exhalation valve and carbon layer for protection against nuisance level vapors. Only filter efficiency check tests were performed because the filtration media is identical to the model F710/V tested and approved under TN-13808. The exhalation valve assembly was tested under TN-13807.

Tests Assigned:

A. Exhalation Resistance Test	84.180
B. Inhalation Resistance Test	84.180
C. Sodium Chloride (NaCl) – N95	84.181

Overall Results:

The items tested passed laboratory testing.

Individual Test Results:

See accompanying test sheets.

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



**Task Number:** TN-13809

**Reference No.:** CFR 84.180

**Test:** Exhalation Resistance Test

**STP No.:** 3

**Manufacturer:** Fido Masks Co., Ltd.

**Item Tested:** F710C/V N95 Filtering Facepiece

**Filter Type:** Filter Only

Sample	Maximum Allowable Resistance	Actual Resistance	Result
	(MM of H <sub>2</sub> O) Exhalation	(MM of H <sub>2</sub> O) Exhalation	
1	25	8.9	PASS
2	25	8.4	PASS
3	25	9.4	PASS

**Overall Result:** PASS

**Signature:**

Engineering Technician

**Date:** 12/23/2004

**Task Number:** TN-13809

**Reference No.:** CFR 84.180

**Test:** Exhalation Resistance Test

**STP No.:** 3

**Manufacturer:** Fido Masks Co., Ltd.

**Item Tested:** F710C/V N95 Filtering Facepiece

**Comments:**

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



Yes



No

**Signature:**



**Engineering Technician**

**Date:** 12/23/2004

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



**Task Number:** TN-13809

**Reference No.:** CFR 84.180

**Test:** Inhalation Resistance Test

**STP No.:** 7

**Manufacturer:** Fido Masks Co., Ltd.

**Item Tested:** F710C/V N95 Filtering Facepiece

**Filter Type:** Filter Only

Sample	Maximum Allowable Resistance (MM of H <sub>2</sub> O)	Actual Resistance (MM of H <sub>2</sub> O)	Result
	Inhalation	Inhalation	
1	35	8.4	PASS
2	35	7.6	PASS
3	35	8.1	PASS

**Overall Result:** PASS

**Signature:**

**Engineering Technician**

**Date:** 12/23/2004

**Task Number:** TN-13809  
**Test:** Inhalation Resistance Test  
**Manufacturer:** Fido Masks Co., Ltd.  
**Item Tested:** F710C/V N95 Filtering Facepiece

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

**Comments:**

Was all equipment verified to be in calibration throughout all testing?  Yes  No

**Signature:**



**Engineering Technician**

**Date:** 12/23/2004

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



**Task Number:** TN-13809

**Reference No.:** CFR 84.181

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

**STP No.:** 59

**Manufacturer:** Fido Masks Co., Ltd.

**Item Tested:** F710C/V N95 Filtering Facepiece

Filter	Flow Rate	Initial Filter Resistance	Maximum Allowable Percent Leakage	Initial Percent Leakage	Maximum Percent Leakage	Result
1	85	10.4	5.00	0.938	1.010	PASS
2	85	10.2	5.00	0.877	0.954	PASS
3	85	11.7	5.00	1.410	1.410	PASS
4	85		5.00	0.000		
5	85		5.00	0.000		
6	85		5.00	0.000		
7	85		5.00	0.000		
8	85		5.00	0.000		
9	85		5.00	0.000		
10	85		5.00	0.000		
11	85		5.00	0.000		
12	85		5.00	0.000		
13	85		5.00	0.000		
14	85		5.00	0.000		
15	85		5.00	0.000		
16	85		5.00	0.000		
17	85		5.00	0.000		
18	85		5.00	0.000		
19	85		5.00	0.000		
20	85		5.00	0.000		

**Overall Result: PASS**

**Signature:**

**Engineering Technician**

**Date:** 12/23/2004

**Task Number:** TN-13809

**Reference No.:** CFR 84.181

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

**STP No.:** 59

**Manufacturer:** Fido Masks Co., Ltd.

**Item Tested:** F710C/V N95 Filtering Facepiece

**Comments:**

Three samples were tested for an N95 check test only. Each sample was tested using the standard NIOSH test fixture.

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

Yes  No

**Signature:**



**Engineering Technician**

**Date:** 12/23/2004