

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

TEST REPORT

Task Number: TN-13808

Prepared by: Pat Wiltanger

Date: December 28, 2004

Manufacturer: Fido Masks Co., Ltd.

Item Tested: Model F710/V N95 Filtering Facepiece

Background Information:

On October 15, 2004, Fido Masks Co., Ltd. requested approval of the new model F710/V N95 filtering facepiece respirator with an exhalation valve.

Tests Assigned:

A. Exhalation Resistance Test	84.180
B. Inhalation Resistance Test	84.180
C. Sodium Chloride (NaCl) – N95	84.181
D. Exhalation Valve Leakage Test	84.182

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-13808

Reference No.: CFR 84.180

Test: Exhalation Resistance Test

STP No.: 3

Manufacturer: Fido Masks Co., Ltd.

Item Tested: F710 / V N95 Filtering Facepiece

Filter Type: Filter Only

Sample	Maximum Allowable Resistance (MM of H ₂ O)	Actual Resistance (MM of H ₂ O)	Result
	Exhalation	Exhalation	
1	25	7.9	PASS
2	25	7.6	PASS
3	25	8.1	PASS

Overall Result: PASS

Signature:

Engineering Technician

Date: 12/28/2004

Task Number: TN-13808

Reference No.: CFR 84.180

Test: Exhalation Resistance Test

STP No.: 3

Manufacturer: Fido Masks Co., Ltd.

Item Tested: F710 / V N95 Filtering Facepiece

Comments:

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



Yes



No

Signature:



Engineering Technician

Date: 12/28/2004

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



Task Number: TN-13808

Reference No.: CFR 84.182

Test: Exhalation Valve Leakage Test

STP No.: 4

Manufacturer: Fido Masks Co., Ltd.

Item Tested: F710/V Exhalation Valve

LEAKAGE						
Sample	Trial #1 (mL/min.)	Trial #2 (mL/min.)	Trial #3 (mL/min.)	Average (mL/min.)	Maximum Allowable (mL/min.)	Result
Valve 1	1.6	3	2.9	2.50	30	PASS
Valve 2	14.1	13.5	13.3	13.63	30	PASS
Valve 3	0	0	0	0.00	30	PASS
Overall Result: PASS						

Signature:

Engineering Technician

Date: 12/23/2004

Task Number: TN-13808
Test: Exhalation Valve Leakage Test
Manufacturer: Fido Masks Co., Ltd.
Item Tested: F710/V Exhalation Valve

Reference No.: CFR 84.182
STP No.: 4

Comments:

1" of vacuum on each sample.

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-13808
Test: Inhalation Resistance Test
Manufacturer: Fido Masks Co., Ltd.
Item Tested: F710/V Filtering Facepiece

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	7.6	PASS
2	35	7.1	PASS
3	35	7.4	PASS

Overall Result: PASS

Signature:

Engineering Technician

Date: 12/28/2004

Task Number: TN-13808
Test: Inhalation Resistance Test
Manufacturer: Fido Masks Co., Ltd.
Item Tested: F710/V 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: 12/28/2004

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



Task Number: TN-13808

Reference No.: CFR 84.181

Test: Sodium Chloride (NaCl) - N95

STP No.: 59

Manufacturer: Fido Masks Co., Ltd.

Item Tested: F710/V Filtering Facepiece

Filter	Flow Rate	Initial Filter Resistance	Maximum Allowable Percent Leakage	Initial Percent Leakage	Maximum Percent Leakage	Result
1	85	9.4	5.00	1.530	1.530	PASS
2	85	10.1	5.00	1.670	1.670	PASS
3	85	10.2	5.00	1.110	1.240	PASS
4	85	9.2	5.00	1.830	1.830	PASS
5	85	9.5	5.00	1.710	1.710	PASS
6	85	9.6	5.00	1.560	1.560	PASS
7	85	9.1	5.00	1.660	1.660	PASS
8	85	9.2	5.00	1.430	1.430	PASS
9	85	10.2	5.00	1.730	1.730	PASS
10	85	9.5	5.00	1.620	1.620	PASS
11	85	9.9	5.00	1.670	1.670	PASS
12	85	9.1	5.00	1.510	1.510	PASS
13	85	9.2	5.00	1.590	1.590	PASS
14	85	10.6	5.00	1.610	1.610	PASS
15	85	10.0	5.00	1.960	1.960	PASS
16	85	9.6	5.00	1.850	1.850	PASS
17	85	10.1	5.00	1.630	1.630	PASS
18	85	9.5	5.00	2.050	2.050	PASS
19	85	10.1	5.00	2.330	2.330	PASS
20	85	10.7	5.00	1.720	1.720	PASS

Overall Result: PASS

Signature:

Engineering Technician

Date: 12/22/2004

Task Number: TN-13808

Reference No.: CFR 84.181

Test: Sodium Chloride (NaCl) - N95

STP No.: 59

Manufacturer: Fido Masks Co., Ltd.

Item Tested: F710/V Filtering Facepiece

Comments:

All samples were tested using the standard NIOSH test fixture.

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

Yes

No

Signature:



Engineering Technician

Date: 12/22/2004