

KN95 – Medical Face Masks

Tests Assigned

<u>Test Description</u>	<u>STP Number</u>
A. Exhalation Resistance Test	TEB-APR-STP-0003
B. Exhalation Valve Leakage Test	TEB-APR-STP-0004
C. Inhalation Resistance Test	TEB-APR-STP-0007
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.

Task Number: TN-21671

Reference No: CFR 84.180

Test: Exhalation Resistance Test

STP No: 3

Filter Type: Filter Only

Item Tested: SS9001V-N95

Maximum Allowable Resistance (MM of H ₂ O) Exhalation		Actual Resistance (MM of H ₂ O) Exhalation	
Sample 1	25	6.1	PASS
Sample 2	25	5.9	PASS
Sample 3	25	6.0	PASS
Overall Result		PASS	

Comments:

Samples were tested on manometer 000282.

All equipment was verified to be in calibration throughout all testing.



Task Number: TN-21671

Reference No: CFR 84.182

Test: Exhalation Valve Leakage Test

STP No: 4

Filter Type: 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	1.88	1.78	1.78	1.81	30.00	PASS
Valve 2	2.52	2.50	2.50	2.51	30.00	PASS
Valve 3	3.44	3.41	3.39	3.41	30.00	PASS
Overall result PASS						

Comments:

Samples 1-3 were tested using Manometer 000297 and Gilibrator 000041.

All equipment was verified to be in calibration throughout all testing.

Task Number: TN-21671

Reference No: CFR 84.180

Test: Inhalation Resistance Test

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Item Tested: SS9001V-N95

STP No: 7

Filter Type: Filter Only

Maximum Allowable Resistance (MM of H2O) Inhalation		Actual Resistance (MM of H2O) Inhalation	
Sample 1	35	7.3	PASS
Sample 2	35	8.1	PASS
Sample 3	35	8.0	PASS
Overall Result		PASS	

Comments:

Samples were tested on manometer 000286.

All equipment was verified to be in calibration throughout all testing.

Task Number: TN-21671

Reference No: CFR 84.181

Test: Sodium Chloride (NaCl) – N95

Item Tested: SS9001V-N95

STP No: 59

Filter	Flow Rate	Initial Filter Resistance	Maximum Allowable Percent Leakage	Initial Percent Leakage	Maximum Percent Leakage	Result
1	85	10.0	5.00	0.374	0.497	PASS
2	85	9.9	5.00	0.616	0.684	PASS
3	85	9.5	5.00	0.454	0.601	PASS
4	85	9.0	5.00	0.342	0.449	PASS
5	85	9.5	5.00	0.337	0.464	PASS
6	85	9.7	5.00	0.233	0.384	PASS
7	85	9.3	5.00	0.466	0.613	PASS
8	85	10.0	5.00	0.330	0.455	PASS
9	85	8.6	5.00	0.439	0.640	PASS
10	85	9.8	5.00	0.606	0.774	PASS
11	85	8.7	5.00	0.602	0.763	PASS
12	85	9.7	5.00	0.802	0.802	PASS
13	85	9.2	5.00	0.770	0.971	PASS
14	85	10.1	5.00	1.040	1.040	PASS
15	85	9.2	5.00	0.446	0.629	PASS
16	85	9.3	5.00	0.478	0.633	PASS
17	85	9.2	5.00	0.472	0.611	PASS
18	85	9.1	5.00	0.442	0.555	PASS
19	85	9.1	5.00	0.468	0.612	PASS
20	85	9.3	5.00	0.510	0.644	PASS
Overall Result PASS						

Comments:

Samples 1-8 were tested on TSI 8130 Machine 000332 using timer 000213. Samples 9-13 were tested on TSI 8130 Machine 000333 using timer. Samples 14-20 were tested on TSI 8130 Machine 000334 using timer 000215. All equipment was verified to be in calibration throughout all testing.