



DEPARTMENT OF HEALTH & HUMAN SERVICES

NIOSH Reference: TN-20185  
Mfr. Reference: SSPMS8225a

**FILE COPY**  
Centers for Disease Control  
and Prevention (CDC)

National Institute for Occupational  
Safety and Health (NIOSH)  
National Personal Protective  
Technology Laboratory (NPPTL)  
626 Cochran Mill Road  
Pittsburgh, PA 15236-0070  
Phone: 412-386-4000  
Fax: 412-386-4051  
June 26, 2015

Mr. Guoping Jiang  
Technical Director  
Suzhou Sanical Protective Product Manufacturing Company, Ltd.  
No. 21, Xihenggang Street, Yangchenghu Town  
Xiangcheng District  
Suzhou City 215002  
China

Dear Mr. Jiang:

The National Institute for Occupational Safety and Health (NIOSH) has reviewed your request accepted April 27, 2015. This request was for approval of the MS8225 air purifying filtering facepiece respirator for protections against particulates at a N95 filter efficiency level, reference assembly matrix MS8225AMa.xls revision A/1, dated June 18, 2015.

This request is granted. Approvals are granted only for documentation written in the English language. It is the manufacturer's responsibility to correctly translate materials desired in languages other than English. Approval number TC-84A-7447 has been assigned. This respirator is approved for protection against particulates at a N95 filter efficiency level.

The CD enclosed with this letter contains the final respirator approval label. The abbreviated label has been accepted as submitted. The cautions and limitations which apply to this approval are on the approval label. Only those assemblies affected by this request, or where new approval numbers are assigned, apply to this approval action. Production approval labels cannot include information on unapproved configurations.

The approved assembly consists of the parts as listed on the approval label and the assembly matrix. Parts are to be marked with the numbers indicated on the approval label in a legible and permanent manner (marking cannot be removed without evidence of its previous presence).

This certificate of approval is not an endorsement of the respirator by NIOSH, and such endorsement shall not be stated or implied in advertisements or other publicity. However, you may publicize the fact that this respirator has met the requirements of Title 42, *Code of Federal Regulations*, Part 84 (42 CFR 84).

No changes may be made to any respirators and accompanying documentation without prior written approval of NIOSH. Requests for changes must be submitted to NIOSH and a modification of this approval must be granted before changes are made.

Sincerely yours,

A handwritten signature in black ink, appearing to read "David Chirdon".

David Chirdon  
Chief, Conformity Verification and  
Standards Development Branch

Enclosures



National Institute for Occupational Safety and Health  
National Personal Protective Technology Laboratory  
Technology Evaluation Branch  
Certification, Evaluation and Testing Section  
626 Cochran Mill Road  
Pittsburgh, PA 15236

## TEST REPORT

**Task Number:** TN-20185

**Manufacturer:** Suzhou Sanical Protective Product Manufacturing Co., Ltd.

**Prepared by:** Nichole Petitta

**Tests Conducted by:** Nichole Petitta

**Date:** June 3, 2015

**Respirator Tested:** MS8225 N95

### Background Information

Respirator tested as per test request.

### Tests Assigned

<u>Test Description</u>	<u>STP Number</u>
A. Exhalation Resistance Test	RCT-APR-STP-0003
B. Inhalation Resistance Test	TEB-APR-STP-0007
C. Sodium Chloride (NaCl) N95 Test	TEB-APR-STP-0059

### Overall Results

The respirator system tested met the requirements of all the procedures listed above.

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



Task Number: TN-20185

Reference No.: CFR 84.180

Test: Exhalation Resistance Test

STP No.: 3

Manufacturer: Suzhou Sanical Protective Product Manufacturing

Filter Type: Filter Only

Item Tested: MS8225 N95

Sample	Maximum Allowable Resistance (MM of H <sub>2</sub> O)	Actual Resistance (MM of H <sub>2</sub> O)	Result
	Exhalation	Exhalation	
1	25	9.8	PASS
2	25	9.8	PASS
3	25	9.8	PASS

Overall Result: PASS

Comments:

Samples were tested on manometer 000034.

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

Yes  No

Signature:

Date: 6/1/2015

Engineering Technician

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



Task Number: TN-20185

Reference No.: CFR 84.180

Test: Inhalation Resistance Test

STP No.: 7

Manufacturer: Suzhou Sanical Protective Product Manufacturing

Item Tested: MS8225 N95

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	10.5	PASS
2	35	11.0	PASS
3	35	10.3	PASS

**Overall Result: PASS**

Signature:

Date: 6/1/2015

Engineering Technician

Task Number: TN-20185

Reference No.: CFR 84.180

Test: Inhalation Resistance Test

STP No.: 7

Manufacturer: Suzhou Sanical Protective Product Manufacturing

Item Tested: MS8225 N95

**Comments:**

Samples were tested on manometer 000037.

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

Yes  No

Signature:

*Nicholas R. Petitta*

Date: 6/1/2015

Engineering Technician

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



Task Number: TN-20185 Reference No.: CFR 84.181  
 Test: Sodium Chloride (NaCl) - N95 STP No.: 59  
 Manufacturer: Suzhou Sanical Protective Product Manufacturing  
 Item Tested: MS8225 N95

Filter	Flow Rate	Initial Filter Resistance	Maximum Allowable Percent Leakage	Initial Percent Leakage	Maximum Percent Leakage	Result
1	85	11.4	5.00	0.045	0.054	PASS
2	85	11.3	5.00	0.091	0.099	PASS
3	85	11.1	5.00	0.206	0.212	PASS
4	85	11.3	5.00	0.251	0.262	PASS
5	85	11.1	5.00	0.088	0.095	PASS
6	85	11.8	5.00	0.125	0.125	PASS
7	85	11.7	5.00	0.271	0.300	PASS
8	85	11.8	5.00	0.135	0.135	PASS
9	85	10.3	5.00	0.129	0.133	PASS
10	85	11.2	5.00	0.126	0.128	PASS
11	85	11.7	5.00	0.222	0.222	PASS
12	85	11.2	5.00	0.083	0.086	PASS
13	85	11.8	5.00	0.352	0.352	PASS
14	85	11.4	5.00	0.075	0.085	PASS
15	85	11.7	5.00	0.081	0.082	PASS
16	85	11.2	5.00	0.109	0.112	PASS
17	85	12.3	5.00	0.111	0.123	PASS
18	85	11.5	5.00	0.083	0.083	PASS
19	85	11.0	5.00	0.195	0.195	PASS
20	85	11.9	5.00	0.080	0.080	PASS

Overall Result: PASS

Signature:   
 Engineering Technician

Date: 6/3/2015

Task Number: TN-20185

Reference No.: CFR 84.181

Test: Sodium Chloride (NaCl) - N95

STP No.: 59

Manufacturer: Suzhou Sanical Protective Product Manufacturing

Item Tested: MS8225 N95

Comments:

Samples 1-6 were tested on TSI 8130 machine 000191 with sample 6 using timer 000213. Samples 7-8 were tested on TSI 8130 machine 000192. Samples 9-20 were tested on TSI 8130 machine 000193 with samples 19-20 using timer 000215.

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

Yes  No

Signature:



Date: 6/3/2015

Engineering Technician