NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: SHENZHEN XIANDA INFORMATION TECHNOLOGY CO., LTD
Model Tested: W80
Date Tested: September 15, 2020

These findings pertain to the SHENZHEN XIANDA INFORMATION TECHNOLOGY CO., LTD, model W80. The packaging for this product indicates that it meets GB2626-2006 (the Chinese standard for Respiratory Protective Equipment – Non-Powered Air-Purifying Particle Respirator) and EN149:2001+A1:2009 (the European standard for Respiratory Protective Devices – Filtering Half Masks to Protect Against Particles – Requirements, Testing, Marking).

Thirty respirators were submitted for evaluation. The samples were tested using the modified version of NIOSH Standard Test Procedure (STP) TEB-APR-STP-0059. This modified assessment plan can be found here.

No certificate of approval was provided with the samples received; therefore, the authenticity of the claims cannot be validated.

The maximum and minimum filter efficiency was 86.40% and 18.50%, respectively. All respirators measured less than 95% filter efficiency.

While the above-listed product classification has similar performance requirements to NIOSH-approved devices, NIOSH does not have knowledge about the sustained manufacturer quality system and product quality control for these products. NIOSH also does not have knowledge about the product's handling and exposures after leaving its manufacturer's control.

In addition, this product is an ear loop design. Currently, there are no NIOSH-approved products with ear loops; NIOSH-approved N95s have head bands. Furthermore, limited assessment of ear loop designs indicate difficulty achieving a proper fit. While filter efficiency shows how well the filter media performs, users must ensure a proper fit is achieved.

This assessment is not a part of the NIOSH respirator approval process and will in no way lead to or preclude NIOSH approval through the official approval process. This assessment was developed as an assessment of the filter efficiency for those respirators represented as certified by an international certification authority, other than NIOSH, to support the availability of respiratory protection to US healthcare workers due to the respirator shortage associated with COVID-19. Only particulate filter efficiency was assessed.

The results provided in this letter are specific to the subset of samples that were provided to NPPTL for evaluation.

These results will be used to update the CDC guidance for Crisis Capacity Strategies (during known shortages).

Evaluation of International Respirators

NPPTL
National Personal Protective Technology Laboratory

Test: Modified TEB-APR-STP-0059

Date Tested: September 15, 2020

Report Prepared: September 15, 2020

Pictures have been added to the end of this report.

Manufacturer: SHENZHEN XIANDA INFORMATION TECHNOLOGY CO., LTD

Item Tested: W80

Country of Certification: China (GB2626-2006), European (EN149:2001+A1:2009)

Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH_2O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
1	85	7.1	55.7	56.2	43.80
2	85	5.2	63.1	64.0	36.00
3	85	6.0	58.9	59.0	41.00
4	85	7.0	62.8	63.4	36.60
5	85	4.3	79.5	81.5	18.50
6	85	10.4	38.1	38.1	61.90
7	85	7.2	55.1	56.0	44.00
8	85	8.2	74.3	74.8	25.20
9	85	4.4	67.5	67.7	32.30
10	85	8.0	70.4	70.9	29.10
Minimum Filter Efficiency: 18.50%			**Maximum Filter Efficiency: 61.90%**		

- The test method utilized in this assessment is not the NIOSH standard test procedure that is used for certification of respirators. Respirators assessed to this modified test plan do not meet the requirements of STP-0059, and therefore cannot be considered equivalent to N95 respirators that were tested to STP-0059.
- Respirators tested may not be representative of all respirators with the same certification mark. NIOSH has no control over suppliers and distributors of respirators certified by other national or international parties.
- This assessment is not a confirmation that it conforms with any or all of its specifications in accordance with its certification mark.
- This assessment was not a part of the NIOSH approval program. These results do not imply nor preclude a future approval through the NIOSH respirator approval program.

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Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH_2O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
11	85	9.1	54.1	54.4	45.60
12	85	5.6	63.0	63.0	37.00
13	85	5.8	68.2	69.7	30.30
14	85	5.9	69.9	72.4	27.60
15	85	5.4	59.7	60.3	39.70
16	85	8.9	15.7	15.7	84.30
17	85	5.9	70.2	71.6	28.40
18	85	3.4	62.3	64.5	35.50
19	85	9.4	13.6	13.6	86.40
20	85	5.8	73.2	75.1	24.90
Minimum Filter Efficiency: 24.90%			**Maximum Filter Efficiency: 86.40%**		

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Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH_2O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
21	85	6.1	19.7	19.7	80.30
22	85	6.9	66.2	67.9	32.10
23	85	5.0	74.1	77.3	22.70
24	85	7.5	62.2	62.2	37.80
25	85	4.9	72.1	73.4	26.60
26	85	6.4	69.1	70.0	30.00
27	85	3.7	78.0	80.5	19.50
28	85	7.6	16.0	16.0	84.00
29	85	7.3	17.2	17.2	82.80
30	85	3.1	75.1	77.0	23.00
Minimum Filter Efficiency: 19.50%			**Maximum Filter Efficiency: 84.00%**		

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KN95
Protective Mask
≥95% Bacterial Filtration Efficiency
Contains Meltblown Layers
CE FFP2
EN149:2001+A1:2009
GB2626-2006
Not For Medical Use
20 PCS/Box

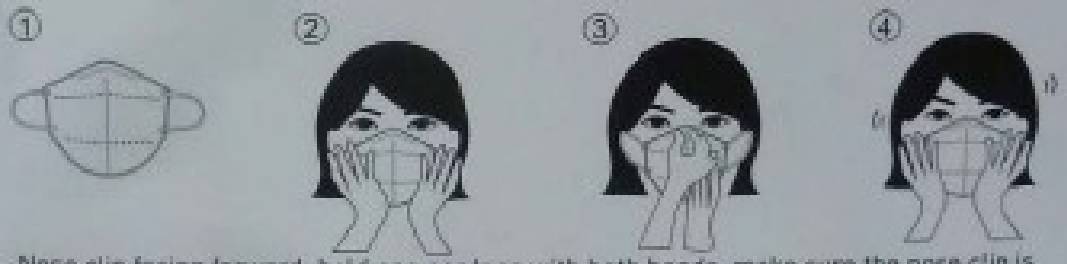
Main Features:

- Effective in protecting against dust and air pollution, safeguard your health and life.
- Adjustable nose clip embedded and elastic ear loop to fit your face. One size fits most people.
- Convenient ear loop design allows you to slip on and remove mask quickly and easily.
- Folds in mask expand for full coverage from top of nose to underneath chin.
- Widely application, fit for personal health protection, dust-free workshop and laboratory, manufacturing industry, service industry like the catering industry and beauty industry, etc.

3-Steps Checkup Before Use:

- Overall Appearance of the Mask is not Damaged or Polluted
- Ear-loops No Damage with Good Elasticity
- Nose clip No Damage or Broken

How To Wear:



1. Nose clip facing forward, hold one ear loop with both hands, make sure the nose clip is facing up.
2. Put on the Mask, cover your nose and chin with the mask and fasten the elastic ear-loops behind your ears.
3. Adjust to a comfortable position so the mask fits the face.
4. Use the index and middle fingers of both hands to press and adjust the nose clip until it fits against the bridge of the nose.
5. Conduct Air tightness inspection

Made in China

4 260464 019994


Layers of protection
Level of KN95
Light and breathable
Skin-friendly and soft


DDD™
KN95
Protective Mask
CE FFP2
≥95% Bacterial Filtration Efficiency

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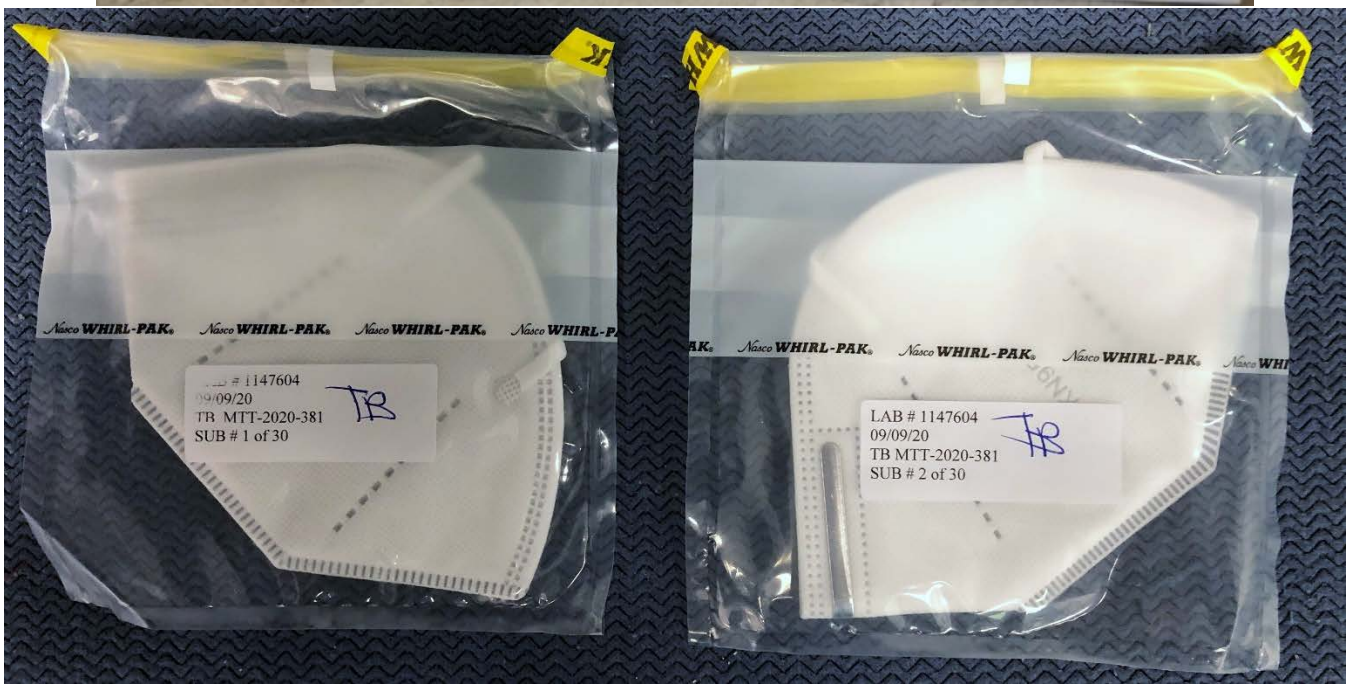

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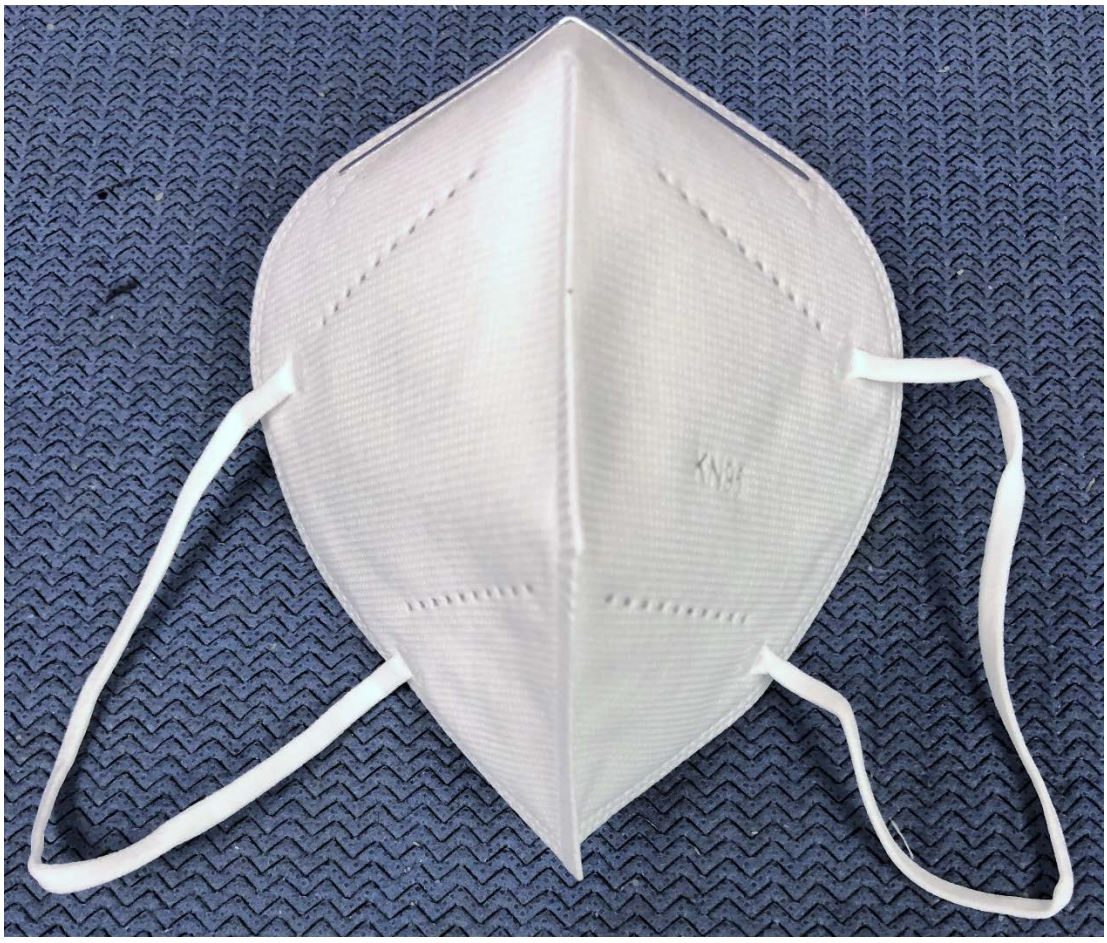

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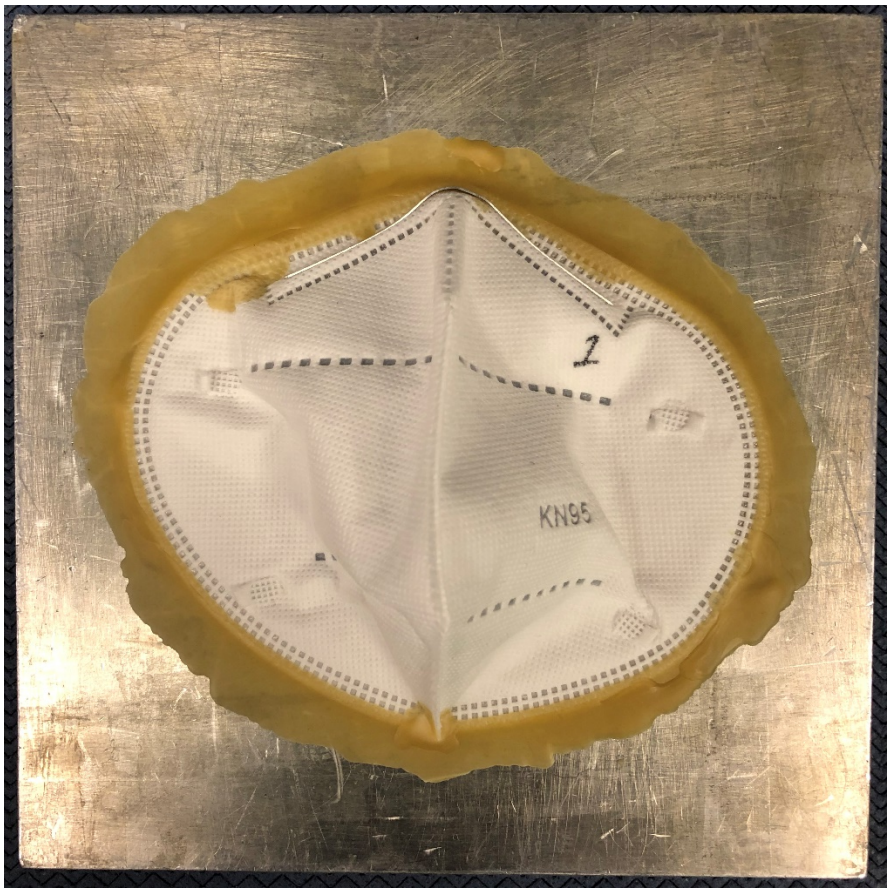

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