

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Nantong Gold-Sufang Weaving Co. Ltd.

Model Tested: KN95 Face Mask

Date Tested: April 22, 2020

These findings pertain to the Nantong Gold-Sufang Weaving Co. Ltd., model KN95 Face Mask. The product information provided with this product indicates that it meets GB2626-2006, the Chinese standard for Respiratory Protective Equipment – Non-Powered Air-Purifying Particle Respirator.

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

A certificate of approval was not provided with the samples received; therefore, the authenticity of the claims cannot be validated.

The maximum and minimum filter efficiency was 93.39% and 84.20%, respectively. All ten respirators measured less than 95%.

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 respirator's 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

**Test:** Modified TEB-APR-STP-0059

**Date Tested:** April 22, 2020

**Report Prepared:** April 23, 2020

**Manufacturer:** Nantong Gold-Sufang Weaving Co. Ltd.

**Item Tested:** KN95 Face Mask

**Country of Certification:** China (GB2626-2006)

Pictures have been added to the end of this report.

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
1	85	12.9	13.30	13.30	86.70
2	85	17.0	6.61	6.61	93.39
3	85	18.0	11.94	11.94	88.06
4	85	14.3	10.10	10.10	89.90
5	85	13.6	9.53	9.53	90.47
6	85	12.3	13.21	13.21	86.79
7	85	16.0	10.40	10.40	89.60
8	85	13.6	15.80	15.80	84.20
9	85	14.2	10.00	10.00	90.00
10	85	14.4	10.30	10.30	89.70
<b>Minimum Filter Efficiency: 84.20</b>			<b>Maximum Filter Efficiency: 93.39</b>		

- 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.

NPPTL COVID-19 Response: International Respirator Assessment





# NPPTL COVID-19 Response: International Respirator Assessment

### HOW TO USE



1. Open the mask to make the nose clip at the top and pull the ear straps with both your hands.
2. Hold the mask against your chin to completely cover your nose and mouth.
3. Pull the ear straps behind your ears and adjust them until they feel comfortable.
4. Use both your hands to adjust the shape of the clip. Place your fingers in the middle of the nose clip and press it inwards while moving your fingertips along both sides of the nose clip until it rests firmly on the bridge of your nose. (Attempting to seal the nose clip with only one hand may not be effective enough to tighten the mask to your face.)
5. Cover the mask with your hand and exhale vigorously. If you feel the air escaping from the nose clip, it will need to be tightened further. Repeat step #4 until air no longer escapes from the edge of the mask. You may also need to re-adjust the ear straps to ensure tightness.

### WARNING

1. This product does not eliminate the risk of contracting any disease or infection.
2. Failure to follow all instructions and limitations on the use of this product could reduce the effectiveness of the product and result in illness.
3. This product does not supply oxygen. Use only in adequately ventilated areas containing sufficient oxygen to support life.
4. Do not use this product with oxygen concentration less than 19.5%.
5. Do not use when concentrations of contaminants are immediately dangerous to health or life.
6. Leave work area immediately and return to fresh air if (a) breathing becomes difficult, or (b) dizziness or other distress occurs.
7. Facial hairs or beards and certain facial characteristics may reduce the effectiveness of this product.
8. Never alter or modify this product in any way.
9. Single use only! No maintenance necessary. Discard the used product after each use.
10. Do not leave indirect sunlight.

 **Please refer to the manual before use and use a mask correctly!**

Manufactured for  
**Premier**  
Comments or Question:  
Toll Free 844-475-7344  
Peoria, Illinois 61644



**检验合格证**  
2020年 4月 9日

产品名称:防护口罩  
产品等级:KN95 数量:5只/包  
主要原材料:内外层为非织造布, 过滤层为熔喷布  
执行标准编号:GB 2626-2006

生产日期: 2020年 4月 10日  
生产批号:SF20200408 型号:立体折叠型  
检验日期: 产品有效期:3年  
检验员代号:01

规格: 16.5cm\*10.5cm  
制造商名称:南通金苏纺织造有限公司



NPPTL COVID-19 Response: International Respirator Assessment



NPPTL COVID-19 Response: International Respirator Assessment

