

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Shenzhen Ruichen Technology Co. LTD

Model Tested: RC-95-001

Date Tested: July 30, 2020

These findings pertain to the Shenzhen Ruichen Technology Co. LTD, Model RC-95-001. The packaging for 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](#).

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 66.60% and 57.20%, respectively. All 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 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

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

**Date Tested:** July 30, 2020

**Report Prepared:** July 31, 2020

**Manufacturer:** Shenzhen Ruichen Technology Co. LTD

**Item Tested:** RC-95-001

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

Pictures have been added to the end of this report.

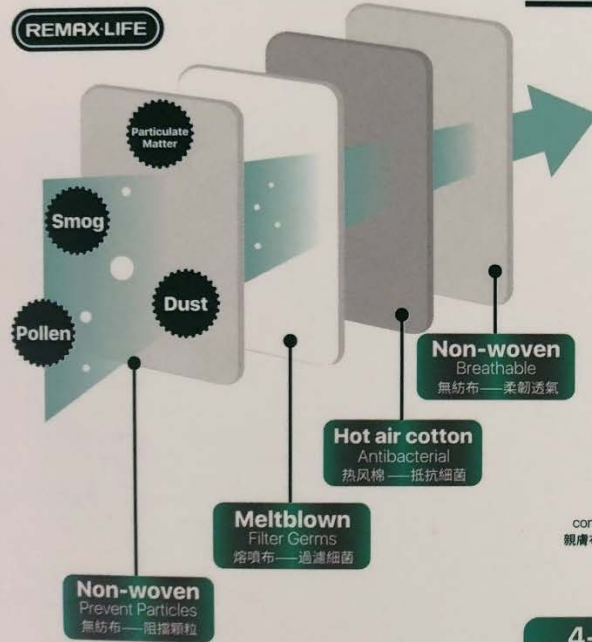
Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
1	85	4.2	40.3	40.9	59.10
2	85	4.6	38.1	39.0	61.00
3	85	3.3	36.5	36.5	63.50
4	85	4.7	41.9	42.4	57.60
5	85	4.3	41.8	42.8	57.20
6	85	3.0	34.9	34.9	65.10
7	85	4.2	37.9	38.1	61.90
8	85	4.5	33.4	33.4	66.60
9	85	4.4	34.7	35.1	64.90
10	85	2.9	34.4	34.4	65.60
<b>Minimum Filter Efficiency: 57.20</b>			<b>Maximum Filter Efficiency: 66.60</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.



# 4-layer PROTECTION

REMAX-LIFE



# 3D Protection<sup>+</sup>



**Nose Tip Shaping**  
Fit a variety of nose shapes  
鼻夾塑形——適合各種鼻形

**3D Design**  
Smooth breathing experience  
立體設計——舒適透氣

**Skin-friendly Fabric**  
skin-friendly fabric, soft and comfortable, absorption up  $\geq 95\%$   
親膚布料——柔韌親膚，吸附率 $\geq 95\%$

**BFE  $\geq 95\%$**

4-layer design • High-efficient barrier effect

## Warning

1. Please use the product within the indicated use period. 2. The product is for single use. Please do not sterilize and use repeatedly. 3. Please check the integrity of the small package before use. If the product is found to be damaged, do not use it and discard it immediately.
4. When the mask is damaged, dirty, or the respiratory resistance is significantly increased, leave the contaminated area and wear a new mask.

## Storage

The product should be stored in a dry and ventilated environment with a temperature ranging from  $-30^{\circ}\text{C}$ ~ $40^{\circ}\text{C}$  and a relative humidity no more than  $70\%$ . Store the product in a dry, ventilated environment with non-corrosive gas, and keep away from flammable materials.

應儲存在乾燥通風的環境，儲存溫度為 $-30^{\circ}\text{C}$ ~ $40^{\circ}\text{C}$ ，相對濕度不大於 $70\%$ ，貯存在乾燥、通風、無腐蝕性氣體的環境中，遠離易燃物。

SHENZHEN RUICHEN TECHNOLOGY CO., LTD. 深圳市睿臣科技有限公司  
Address: 501 of B2 Building, Mingjun Industrial Park, No.2 地址: 深圳市龍華新區大浪街道新石社區源高  
Yuangao Road, Xinshi Community, Dalang Street, Longhua 路2號明君工業園B2棟501  
New District, Shenzhen City.

**RC-95-001**

Executive standard:  
執行標準:  
GB2626-2006

KN95防護口罩 (非醫用)  
KN95 PROTECTIVE MASK (NON-MEDICAL)



MADE IN CHINA

DISPOSABLE PROTECTIVE MASK  
一次性使用防護口罩

**RC-95-001**

With meltblown non-woven fabric, absorb and filter particles

內涵熔噴無紡布能吸附和過濾顆粒

**Product name** 產品名稱  
KN95 Disposable Protective Mask (Non-medical)  
KN95防護口罩(非醫用)

**Composition** 主要結構組成  
The product is composed of 4 layers of mask material, a nose clip and elastic straps.  
產品由口罩四層材料、鼻夾、鬆緊帶組成

**Model** 型號  
RC-95-001

**Specifications** 規格尺寸  
Rectangle 95x170mm

**Validity** 有效期  
24 months

**Number** 數量  
10 pcs / bag

**KN95**  
**BFE ≥ 95%**

**10PCS**

**IT IS RECOMMENDED  
FOR A CONTINUOUS  
USE FOR NO MORE  
THAN 4-6 HOURS**



## 4-layer PROTECTION

### Cautions 注意事項

Please wear it according to the picture description and check if the mask is properly sealed to the face. Please check if the package or the mask is damaged before use. If there is any damage, stop using it. Keep the product away from moisture. Do not modify, wash or exchange disposable masks. For single use, when the mask is damaged, wet or breathing is not smooth during wearing, please replace the mask immediately. If there is liquid splashing, damage to the mask, dampness, or the respiratory resistance is significantly increased during wearing, please replace the mask in time.

請按照圖片說明佩戴，檢查口罩與臉部的貼合性。使用前請檢查包裝有無破損，口罩是否損壞，如有損壞禁止使用。本品注意防潮。隨棄型口罩請勿改裝，洗滌或者交換使用。一次性使用，當口罩受損、受潮或者使用時感到呼吸不順暢，請立刻更換口罩。佩戴中如發生液體噴濺、口罩破損、受潮及感覺呼吸阻力明顯增大時，請及時更換。



**PUT THE MASK AGAINST THE CHIN  
AND PULL THE STRAP OVER THE EAR**  
用口罩抵住下巴，將耳帶拉至耳後，掛在耳朵上



**ADJUST THE MASK TO ENSURE IT  
WELL FITS**

將雙手手指置於鼻夾中部，雙手同時從鼻夾中部往鼻樑兩側按壓貼合

**4-layer design,  
High-efficient barrier effect**  
**Meltblown  
Non-woven Fabric**



**合格证 Qualified Certificate**

产品名称: KN95防护口罩(非医用)  
Product Name: KN95 Disposable Protective Mask(Non-medical)

---

型号: RC-95-001  
Model:

---

主要原材料: 熔喷布、无纺布、热风棉  
Mainly Raw Materials: Non-woven Fabric, Meltblown and Hot air cotton

---

执行标准: GB2626-2006  
Executive Standard:

---

生产批次: 202000018  
Batch No.:

---

检验员: 16  
Inspector:

---

生产日期: 20/4/2020  
Production Date:

---

保质期: 2 Years  
Warranty:

---

生产商: 深圳市睿臣科技有限公司  
Manufacturer: Shenzhen Ruichen Technology Co., Ltd.

---

地址: 深圳市龙华新区大浪街道新石社区源高路  
2号明君工业园B2栋501  
Address: 501 of B2 Building, Mingjun Industrial Park, No.2 Yuangao Road, Xinshi Community, Dalang Street, Longhua New District, Shenzhen City.

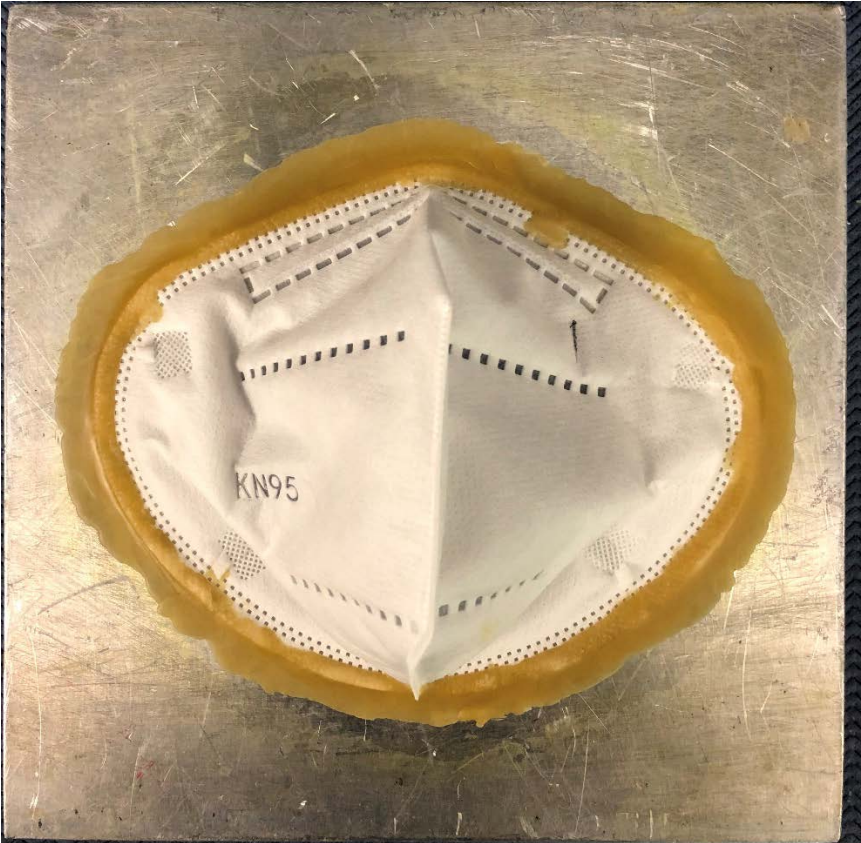
---

电话 Phone: 0755-29423253

NPPTL COVID-19 Response: International Respirator Assessment



NPPTL COVID-19 Response: International Respirator Assessment





# NPPTL COVID-19 Response: International Respirator Assessment

