NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Fujian Yongtai Sanlian Garment Co., Ltd.
Model Tested: KN95
Date Tested: June 22, 2020

These findings pertain to the Fujian Yongtai Sanlian Garment Co., Ltd., model KN95. The packaging for this product indicates that it meets GB2626-2006 (the Chinese standard for Respiratory Protective Equipment – Non-Powered Air-Purifying Particle Respirator).

Thirty respirators were submitted for evaluation. The respirators were sampled into groups of ten 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 99.26% and 95.44%, respectively. All thirty respirators measured more 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).
NPPTL COVID-19 Response: International Respirator Assessment

Evaluation of International Respirators

Test: Modified TEB-APR-SP-0059
Date Tested: June 22, 2020
Report Prepared: June 22, 2020
Manufacturer: Fujian Yongtai Sanlian Garment Co., Ltd.
Item Tested: KN95 (Sample Group 1 of 3)
Country of Certification: China (GB2626-2006)

<table>
<thead>
<tr>
<th>Filter</th>
<th>Flow Rate (Lpm)</th>
<th>Initial Filter Resistance (mmH2O)</th>
<th>Initial Percent Leakage (%)</th>
<th>Maximum Percent Leakage (%)</th>
<th>Filter Efficiency</th>
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</table>

Minimum Filter Efficiency: 97.29  Maximum Filter Efficiency: 99.26

- 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.

Pictures have been added to the end of this report.
**NPPTL COVID-19 Response: International Respirator Assessment**

**Test:** Modified TEB-APR-STP-0059  
**Date Tested:** June 22, 2020  
**Report Prepared:** June 22, 2020  
**Manufacturer:** Fujian Yongtai Sanlian Garment Co., Ltd.  
**Item Tested:** KN95 (Sample Group 2 of 3)  
**Country of Certification:** China (GB2626-2006)

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NPPTL COVID-19 Response: International Respirator Assessment

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

**Date Tested:** June 22, 2020

**Report Prepared:** June 22, 2020

**Manufacturer:** Fujian Yongtai Sanlian Garment Co., Ltd.

**Item Tested:** KN95 (Sample Group 3 of 3)

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

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</table>

Minimum Filter Efficiency: 95.44  
Maximum Filter Efficiency: 98.95

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KN95
Protective respirator
GB2626-2006

- Odorless
- Non-irritating
- Hypoallergenic
- Disposable

FOR CIVIL USE 非医用口罩
Product name: Protective respirator
Product model: KN95
Material: Highly breathable, PP non-woven fabric, meltblown filter element
Color: White
Packing size: 165 * 120 * 90mm
Standard: GB2626-2006
Production Date: See the certificate for details
Shelf life: 2 years
Storage condition: The recommended storage temperature is between 0-50°C with relative humidity below 80%. Storage area should be clean, ventilated and free from harmful gases.
Manufacturer: Fujian Yongtai Santian Garment Co., LTD.
Mayang Industries Zone, Chongfeng Town, Yongtai County (Dongyang township plant), China
WARNING: Do not use this product when the surrounding pollutants are hazardous to health or life and when the oxygen level is too low. Change your mask immediately when you start to experience increased breathing resistance or feel unwell. Replace the mask immediately when it is contaminated by blood, body fluid or droplets.
合格证
Certificate of approval

产品名称：呼吸防护用品（非医用口罩）
Product name: respiratory protective equipment (non-medical mask)

型号：KN95
Model: KN95

主要成分：熔喷布30%、无纺布40%、
Main ingredients: melt spray cloth 30%, non-woven cloth 40%,

水刺棉30%
spiny cotton 30%

执行标准: GB 2626-2006
Implementation standard: GB 2626-2006

包装规格: 20个/盒
Package size: 20 per box

有效期: 二年
Valid: two years

生产日期: 2020.04.19
Date of production: 2020.04.19

生产批次号: 202005143
Lot number: 202005143

生产企业: 福建省永泰三连制衣有限公司
Manufacturing enterprise: Fujian Yongtai Sanlian Garment Co., Ltd.

生产地址: 福建省福州市永泰县站前大道
Address: Zhangqian Avenue, Yongtai County, Fuzhou City, Fujian Province

本产品经检验合格予以出厂
100% QC before shipment

检验: 01
Inspection: 01
NPPTL COVID-19 Response: International Respirator Assessment
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