NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Jiangsu Yimao Filter Media Co., Ltd.
Model Tested: 9570K
Date Tested: June 11, 2020

These findings pertain to the Jiangsu Yimao Filter Media Co., Ltd., model 9570K. The packaging and labeling for this product indicate 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 99.64% and 98.65%, 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).
**Evaluation of International Respirators**

**Test:** Modified TEB-APR-STP-0059  
**Date Tested:** June 11, 2020  
**Report Prepared:** June 11, 2020  
**Manufacturer:** Jiangsu Yimao Filter Media Co., Ltd.  
**Item Tested:** 9570K (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>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>85</td>
<td>7.1</td>
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<tr>
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<td>9</td>
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<td>13.0</td>
<td>0.33</td>
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</tr>
</tbody>
</table>

Minimum Filter Efficiency: 99.00  
Maximum Filter Efficiency: 99.58

- 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

Test: Modified TEB-APR-STP-0059
Date Tested: June 11, 2020
Report Prepared: June 11, 2020
Manufacturer: Jiangsu Yimao Filter Media Co., Ltd.
Item Tested: 9570K (Sample Group 2 of 3)
Country of Certification: China (GB2626-2006)

<table>
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<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: 98.96  Maximum Filter Efficiency: 99.64

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NPPTL COVID-19 Response: International Respirator Assessment

Test: Modified TEB-APR-STP-0059

Date Tested: June 11, 2020

Report Prepared: June 11, 2020

Manufacturer: Jiangsu Yimao Filter Media Co., Ltd.

Item Tested: 9570K (Sample Group 3 of 3)

Country of Certification: China (GB2626-2006)

<table>
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<th>Initial Filter Resistance (mmH₂O)</th>
<th>Initial Percent Leakage (%)</th>
<th>Maximum Percent Leakage (%)</th>
<th>Filter Efficiency</th>
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<td>0.58</td>
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</table>

Minimum Filter Efficiency: 98.65
Maximum Filter Efficiency: 99.52

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View of the labeling on the inner boxes.
合格证
Certificate of Conformity

产品名称: elmo® 9570K 高效低阻KN95 口罩
Product Name: elmo® 9570K KN95 high-efficiency and low-resistance respirator

型号: 9570K
Item No.: 9570K

尺寸规格: 10.5*16cm
Product Size: 10.5*16cm

主要成分: 42% 无纺布 + 20% 熔喷布 + 38% 热风棉
Main ingredients: Non-woven 42% + Melt blown 20% + Air-laid fabric 38%

执行标准: GB 2626-2006 KN95
Carried Standard: GB 2626-2006 KN95

生产日期: 见封口
MFG NO.: See the seal

生产批号: 20510
Lot NO.: 20510

有效期: 在温度为-30°C到40°C, 相对湿度不超过80%RH, 避免干燥的室内环境下, 有效期为3年
Exp. Date: 3 Years

检验员: 03
Inspector: 03

检验状态: 合格
Inspection status: Passed/Qualified

生产企业: 江苏亿茂滤材有限公司
Manufacturer: Jiangsu Yimao Filter Media Co., Ltd

生产地址: 江苏省宿迁市宿城区经济开发区复旦路北侧
Address: North side of Fudan Rd, Sucheng Economic and Development Zone, Suqian city, Jiangsu, China.

生产企业电话: 0527-80876507 Telephone: 0527-80876507
NPPTL COVID-19 Response: International Respirator Assessment

Image of a package of an eimo respirator with the text:
High efficient & low resistant Respirator
KN95 9570K 1 pcs white
(Non-Medical Mask)
eimo 高效低阻防护口罩
High efficient & low resistant Respirator

Filter Rating: KN95
Model number: 9670K
Material: Ultra fine melt blown
Standard: GB2626-2006
Term of validity: 2 years
Production date: see the seal

Positive pressure test: Gently press the mask with both hands, then deliberately exhale, the air should not seal from the edge of the mask.
Negative pressure test: Gently press the mask with both hands, then breathe in deliberately, the center of the mask should be slightly sunken;
If there is air leakage, please adjust the position of the nose clip and wear until there is no more leakage.

Instructions:
1. Hold one ear band in each hand so that the nose clip is over the mask.
2. Hang the ear strap on the ear and adjust the ear strap to a more comfortable position.
3. Press both index and middle fingers from the top of the center to the sides of the nose at the same time until they are close to the bridge of the nose.
4. Cover the mask with both hands and test the positive and negative pressure to ensure the seal of the mask.

Caveat:
The overall appearance of the mask should be free from damage or contamination, the ear band is elastic, and the nose clip is free from damage or breakage.

If you feel difficulty breathing, dizziness or other discomfort, leave the contaminated area immediately, replace the mask as soon as breathing resistance becomes greater.

Do not modify, clean, abuse or misuse the mask.
Patients with severe respiratory diseases, COPD, cardiovascular diseases and pregnant women should use this mask with caution.

Manufacturer: Jiangsu Yimo Filter Media Co., Ltd
Address: North side of Fudan Rd, Sucheng Economic and Development zone, Suqian city, Jiangsu, China.
Phone: 0527-8087 6507 Fax: 0527-8087 6508
www.ymoeco.com

<table>
<thead>
<tr>
<th>Relative humidity</th>
<th>Storage conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;80%</td>
<td>-30°C to +40°C</td>
</tr>
</tbody>
</table>

Made in China
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