NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Guangzhou Baoweikang (Powecom) Personal Protection Equipment Co., Ltd.
Model Tested: KN95 Protective Mask
Date Tested: April 22, 2020

These findings pertain to the Guangzhou Baoweikang (Powecom) Personal Protection Equipment Co., Ltd., KN95 Protective Mask. The labeling for this product indicates that it meets GB2626-2006 KN95, the Chinese standard for Respiratory Protective Devices – Filtering Half Masks to Protect Against Particles – Requirements, Testing, Marking.

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 provided with the samples received; however, the authenticity of the claims cannot be validated.

The maximum and minimum filter efficiency was 99.40% and 99.21%, respectively. All of the 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).
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Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059

Date Tested: April 22, 2020

Report Prepared: April 23, 2020

Manufacturer: Guangzhou Baoweikang (Powecom) Personal Protection Equipment Co., Ltd.

Item Tested: KN95 Protective Mask

Country of Certification: China (GB2626-2006 KN95)

<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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</thead>
<tbody>
<tr>
<td>1</td>
<td>85</td>
<td>8.5</td>
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<td>3</td>
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<td>10</td>
<td>85</td>
<td>8.5</td>
<td>0.568</td>
<td>0.745</td>
<td>99.26</td>
</tr>
</tbody>
</table>


- 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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产品性能:
1. 采用熔喷纤维静电熔喷布复合ES热风棉、PP纺粘无纺布，形成四重过滤层，更有效过滤有害物，符合国标KN95级别。
2. 人体工程学设计的立体形状，确保密合性的同时增加了口罩的呼吸容积，大大提升透气性，佩戴更舒适。

使用方法:
1. 口罩打开，有鼻梁条处，佩戴后按压鼻梁条密合，防护效果更佳。

使用范围:
适用于防护粒物、PM2.5雾霾颗粒物、流感细菌、飞沫等有害颗粒物。本品具有防尘等功能。

注意事项:
1. 本品为一次性使用，用后丢弃，不可重复使用。
2. 确保与面部紧密贴合，避免口罩边缘漏气。
3. 本品由无纺布制成，避免高温消毒。
4. 避免接触热源或火源。
5. 本产品不适合儿童使用。

生产商：
地址：武汉市东西湖区金银潭大道501号
电话：027-84660977
传真：027-84660980
邮编：430032
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