NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Kuangye (Dongguan) Technology Co., Ltd.
Model Tested: Geyou KN95 Environmental Protective Respirator
Date Tested: April 29, 2020

These findings pertain to the Kuangye (Dongguan) Technology Co., Ltd., Geyou KN95 Environmental Protective Respirator. 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 observed was 97.10% and 13.60%, respectively. Two respirators measured equal to or more than 95%. Eight 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 29, 2020

Report Prepared: May 4, 2020

Manufacturer: Kuangye (Dongguan) Technology Co., Ltd.

Item Tested: Geyou KN95 Environmental Protective Respirator

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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<tbody>
<tr>
<td>1</td>
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<td>61.5</td>
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</table>

Minimum Filter Efficiency: 13.60
Maximum Filter Efficiency: 97.10

- 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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产品名称: 葛友牌KN95颗粒物防护口罩
执行标准: GB2626-2006 KN95
产品规格: 1×10个/盒
产品型号: KN95
生产日期: 2020年3月10日
有效期: 2年
建议储存条件: 温度<80%,无腐蚀性气体和通风良好的清洁室内，注意使用前佩戴者必须阅读并了解使用说明。
制造商: 广东（东莞）科技有限公司
地址: 广东省东莞市清溪镇利晖路35号
电话: 0769-86003760

注意事项
1. 为保证口罩卫生干净，要避免用手接触口罩内侧
2. 每次佩戴防尘口罩后，应立即做佩戴”紧密型”检查，确保口罩佩戴位置正确
3. 每次佩戴口罩前，应该清洁双手如需暴露在粉尘多的环境中，应该一直佩戴口罩
4. 当感觉呼吸阻力明显增大，或当口罩变得脏污、破损时，应当尽快更换口罩
5. 本口罩不可水洗，水洗会破坏滤材结构，造成穿透，并且破坏静电滤材的过滤性能
6. 未使用的口罩应储存在洁净的环境中，需防止口罩受到损坏、脏污、粘尘、阳光直射高温或有害化学，口罩不能用微波炉消毒（非灭菌型）

产品性能
1. 采用超细纤维静电喷涂复合ES热风棉 PP 纤粘无纺布,形成四重过滤层,更有效过滤有害物,符合国标 KN95级别；
2. 按人体工程学设计3D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,令佩戴呼吸更舒适。

适用范围
适用于防护粉尘PM2.5雾霾颗粒物、流感细菌、飞沫等有害颗粒物。本品具有防风防寒功能。

佩戴方法
1. 将口罩打开
2. 有鼻梁条上佩戴
3. 按压鼻梁条密封
4. 防护效果更佳
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