# 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).

# Evaluation of International Respirators

NPPTL
National Personal Protective Technology Laboratory

Pictures have been added to the end of this report.

**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)

| Filter | Flow Rate (Lpm) | Initial Filter Resistance ($mmH_2O$) | Initial Percent Leakage (%) | Maximum Percent Leakage (%) | Filter Efficiency |
|---|---|---|---|---|---|
| **1** | 85 | 8.5 | 0.545 | 0.688 | 99.31 |
| **2** | 85 | 8.5 | 0.626 | 0.793 | 99.21 |
| **3** | 85 | 9.0 | 0.509 | 0.659 | 99.34 |
| **4** | 85 | 8.5 | 0.542 | 0.721 | 99.28 |
| **5** | 85 | 8.6 | 0.497 | 0.637 | 99.36 |
| **6** | 85 | 8.4 | 0.495 | 0.674 | 99.33 |
| **7** | 85 | 8.4 | 0.560 | 0.745 | 99.26 |
| **8** | 85 | 8.3 | 0.594 | 0.759 | 99.24 |
| **9** | 85 | 8.8 | 0.472 | 0.604 | 99.40 |
| **10** | 85 | 8.5 | 0.568 | 0.745 | 99.26 |
| **Minimum Filter Efficiency: 99.21** | | | **Maximum Filter Efficiency: 99.40** | | |

- 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.


MTT-2020-49
保为康®
POWECOM
MTT-2020-49
KN95防护口罩
KN95 PROTECTIVE MASK
细菌、颗粒物过滤效率≥95%
N95滤材
安全防护

POWECOM
一切保护皆为健康!
产品性能:
1.采用超细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.按人体脸型工程学设计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。
佩戴方法:
将口罩打开，有鼻梁条居上，佩戴后按压鼻梁部密合，防护效果更佳。
①
②
③
④
使用范围:
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。
产品名称:自吸过滤式防颗粒物呼吸器(随弃式)
产品型号:KN95 有效期:3年 生产日期:见合格证
本品执行标准:GB2626-2006 KN95
储存条件:湿度<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这些使用说明，请保存这些使用说明以便参考。
商标持有者及销售方:
保为康集团有限公司:
保为康集团（香港）有限公司
地址：香港德辅道西西营盘正街18号启正中心12楼3A
电话：852-36891869
广州市安身宝医疗器械有限公司
地址：广州市花都区团结路12号之二栋401(空港花都)
电话：020-86826362 传真：020-86600977
保为康医疗用品（香港）有限公司
地址：香港新界葵涌工业街2-8号力丰大厦2楼F5室
电话：852-34892866
注意事项：
1.为保证口罩卫生干净，要避免用手部接触口罩内侧
2.每次佩戴防尘口罩后，应立即做佩戴“紧密性”检查，确保口罩佩戴位置正确
3.每次佩戴口罩前，应该清洗双手。如需曝露在粉尘多的污染环境中，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、破损时候，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
或者有害化学物污染等。存放口罩时，还要避免口罩变形。
7.口罩不能用微波炉消毒
生产方：
广州市保为康劳保用品有限公司（A）
广州市花都区新雅街团结路43号保为康工业园
地址：广州市花都区新雅街团结路43号保为康工业园
电话：020-86600663 传真：020-36092323
广州市白云区人和天地劳保用品厂（B）
地址：广州市白云区人和镇太成东路1号
电话：020-36092189 传真：020-36092189
注：实际生产地以生产日期后的字母代码为准

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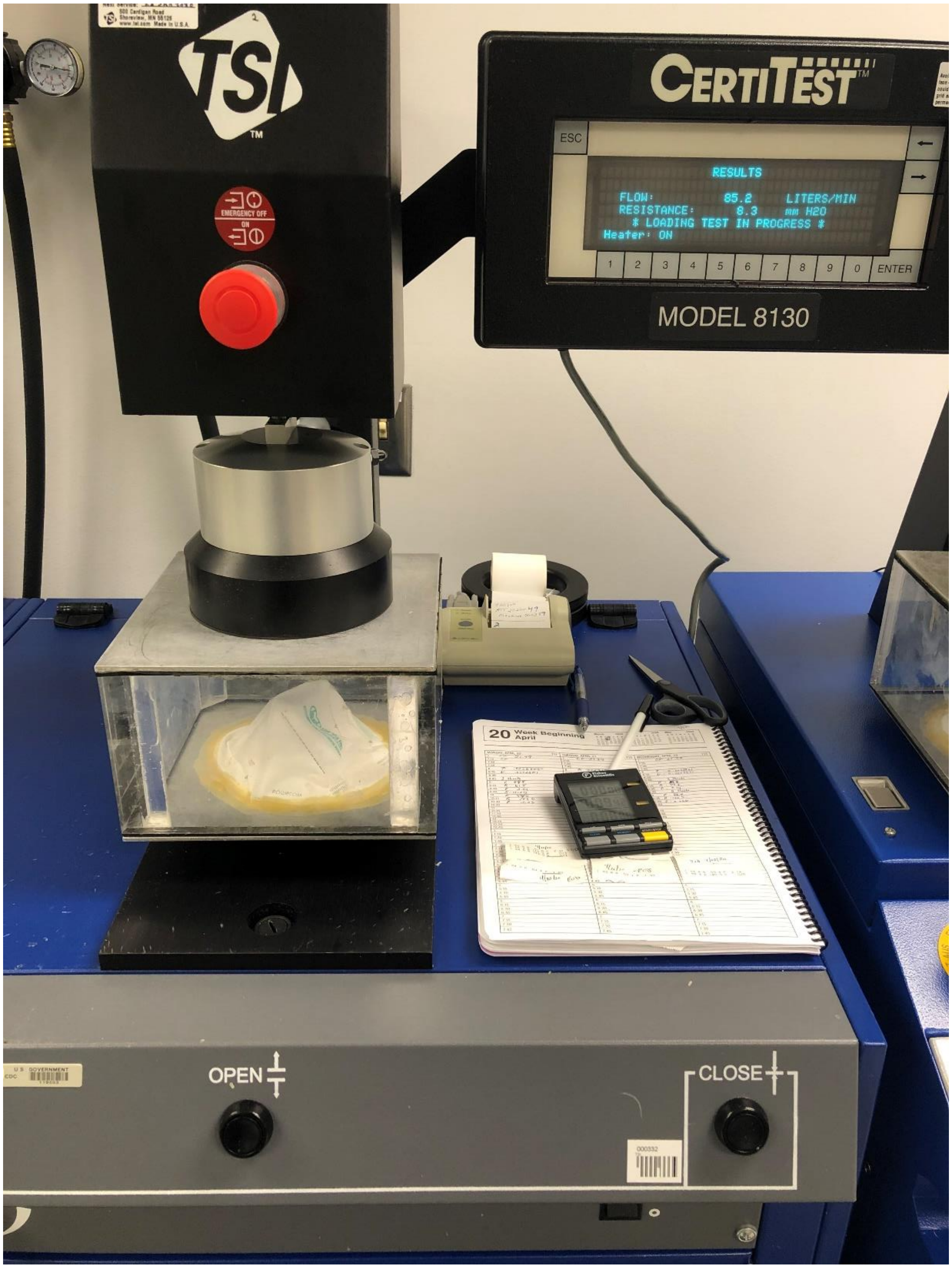
TSI
EMERGENCY OFF
ON
CERTITEST
ESC
RESULTS
FLOW: 85.2 LITERS/MIN
RESISTANCE: 8.3 mm H2O
* LOADING TEST IN PROGRESS *
Heater: ON
1 2 3 4 5 6 7 8 9 0 ENTER
MODEL 8130
20 Week Beginning April
OPEN
CLOSE