

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Guangzhou Powecom Labor Insurance Supplies Co., Ltd.

Model Tested: KN95

Date Tested: December 2, 2020

These findings pertain to the Guangzhou Powecom Labor Insurance Supplies Co., Ltd., model KN95. 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 99.35%, 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 respirators 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: December 2, 2020

Report Prepared: December 2, 2020

Manufacturer: Guangzhou Powecom Labor Insurance Supplies Co., Ltd.

Item Tested: KN95

Country of Certification: China (GB2626-2006)

Pictures have been added to the end of this report.

Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
1	85	11.3	0.45	0.45	99.55
2	85	10.6	0.40	0.40	99.60
3	85	10.0	0.36	0.36	99.64
4	85	11.6	0.52	0.52	99.48
5	85	10.7	0.53	0.53	99.47
6	85	10.1	0.47	0.47	99.53
7	85	12.1	0.53	0.53	99.47
8	85	11.2	0.54	0.54	99.46
9	85	10.5	0.42	0.42	99.58
10	85	11.8	0.57	0.57	99.43
Minimum Filter Efficiency: 99.43%			Maximum Filter Efficiency: 99.64%		

- 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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Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
11	85	10.7	0.58	0.58	99.42
12	85	11.0	0.51	0.51	99.49
13	85	11.4	0.50	0.50	99.50
14	85	12.1	0.52	0.52	99.48
15	85	10.4	0.44	0.44	99.56
16	85	12.1	0.48	0.48	99.52
17	85	12.1	0.52	0.52	99.48
18	85	10.1	0.43	0.43	99.57
19	85	12.5	0.56	0.56	99.44
20	85	11.6	0.47	0.47	99.53
Minimum Filter Efficiency: 99.42%			Maximum Filter Efficiency: 99.57%		

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Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
21	85	9.5	0.51	0.51	99.49
22	85	12.3	0.49	0.49	99.51
23	85	11.4	0.45	0.45	99.55
24	85	9.8	0.47	0.47	99.53
25	85	12.6	0.52	0.52	99.48
26	85	11.2	0.48	0.48	99.52
27	85	10.6	0.44	0.44	99.56
28	85	12.8	0.56	0.56	99.44
29	85	12.4	0.65	0.65	99.35
30	85	10.1	0.37	0.37	99.63
Minimum Filter Efficiency: 99.35%			Maximum Filter Efficiency: 99.63%		

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合格证 Certificate

品牌: 保为康 型号: KN95
Brand: POWECOM Model No.: KN95

品名: KN95防护口罩
Item: KN95 Protective Mask

数量: 10只/袋 等级: KN95
Packaging: 10pcs/bag Grade: KN95

执行标准: GB2626-2006 KN95
Standard: GB2626-2006 KN95

产品构成: 46% PP无纺布, 28%熔喷布, 26%热风棉
Composition: 46% PP Non-woven fabric, 28% melt blown fabric,
26% ES hot air cotton

检验员:
Inspector:

生产日期: 2020/09/23
Data of Manufacture: 23/09/2020

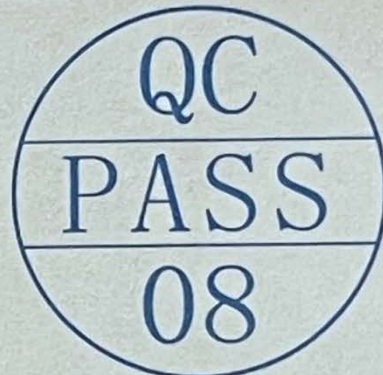
生产批次: 20200923
Batch No.: 20200923

有效期限: 3年
Validity: Three years

生产商: 广州市保为康劳保用品有限公司
Manufacturer: Guangzhou Powecom Labor Insurance Supplies Co., Ltd

地址: 广东省广州市花都区新雅街团结路自编43号
1栋一、三、四层

Add: Floor 1, 3 and 4, Building 1, No. 43, Tuanjie Road, Xinya Street,
Huadu District, Guangzhou City, Guangdong Province, P. R.
China



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PRODUCT INSTRUCTION

MODEL: KN95 (Earloop style)

ITEM: KN95 Protective Mask

APPLICATION:

Suitable for protection against powder, PM2.5 smog, particulates, saliva, dust etc. The face mask is good for wind proof and protection the face against cold weather.

COMPOSITION:

Outer layer PP Non-woven fabric
Middle layer ES hot air cotton Non-woven fabric and efficiency electrostatic Melt-blown fabric
Inner layer PP Non-woven fabric
Executive standard GB 2626-2006 KN95
Non-oily particulate filtering efficiency $\geq 95\%$

STORAGE TEMPERATURE:

Temperature $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$, humidity $< 80\%$
Store in dry and cool place

VALIDITY: Three years

INSTRUCTION FOR USE:



Stretch face mask



Place the ear-loop to ear



Adjust and press the nose piece



Ensure covering the chin

CAUTIONS:

1. This product cannot be used to prevent harmful gases.
2. Discard the face mask when it gets quite dirty or breathing resistance increase remarkably.
3. Please avoid storing this product in the environment of high temperature, humidity or harmful chemicals.
4. Preschoolers or patients with respiratory abnormalities can't use it.
5. Everytime you use it, please check the wearing "adhesive" to ensure that the mask is worn correctly contamination.
6. Not suitable for use in environments with toxic gases or oxygen concentrations below 19.5%.
7. Cannot be used in microwave oven.

CUSTOMER SERVICE HOTLINE: 400-008-5933

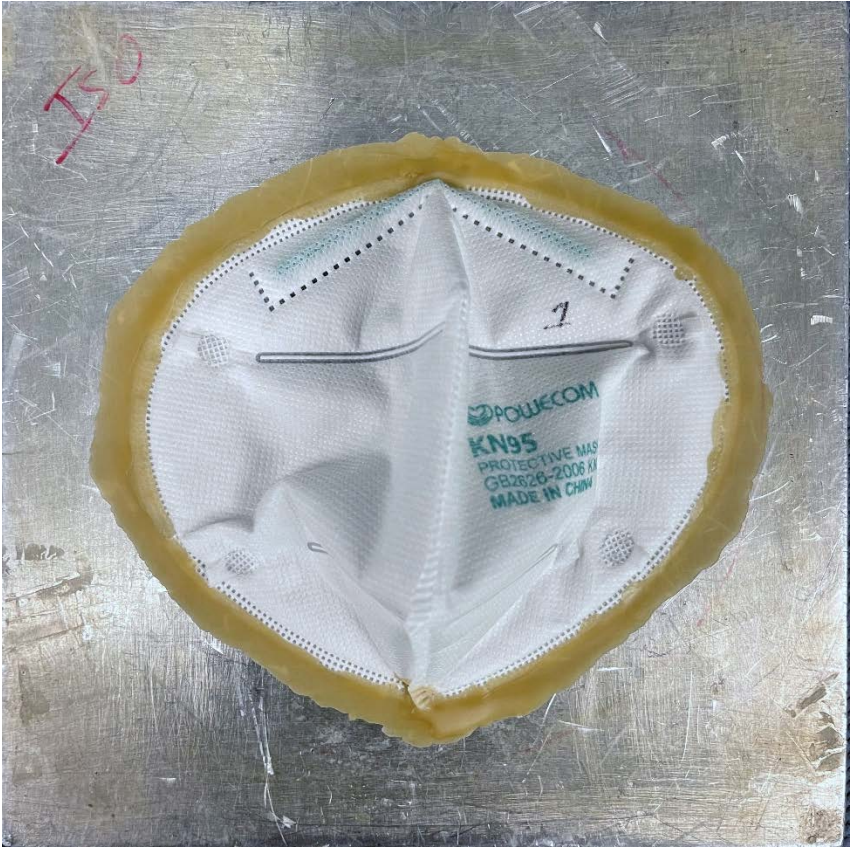
MANUFACTURER:

Guangzhou Powecom Labor Insurance Supplies Co., Ltd
Add: Floor 1, 3 and 4, Building 1, No. 43, Tuanjie Road, Xinya Street, Huadu District, Guangzhou City, Guangdong Province, P. R. China

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