

NPPTL COVID-19 Response: International Respirator Assessment

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

Model Tested: KN95 (Earloop style)

Date Tested: October 7, 2020

These findings pertain to the Guangzhou Powecom Labor Insurance Supplies Co., Ltd., model KN95 (Earloop style). 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 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 99.76% and 99.03%, 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: October 7, 2020

Report Prepared: October 9, 2020

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

Item Tested: KN95 (Earloop style)

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	10.5	0.58	0.58	99.42
2	85	10.3	0.42	0.42	99.58
3	85	9.3	0.34	0.34	99.66
4	85	10.4	0.37	0.37	99.63
5	85	10.5	0.81	0.81	99.19
6	85	9.9	0.24	0.24	99.76
7	85	10.9	0.57	0.57	99.43
8	85	10.7	0.79	0.79	99.21
9	85	9.6	0.64	0.64	99.36
10	85	10.2	0.81	0.81	99.19
Minimum Filter Efficiency: 99.19%			Maximum Filter Efficiency: 99.76%		

- 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	11.4	0.73	0.73	99.27
12	85	9.1	0.59	0.59	99.41
13	85	10.8	0.80	0.80	99.20
14	85	10.5	0.93	0.93	99.07
15	85	9.6	0.61	0.61	99.39
16	85	10.3	0.65	0.65	99.35
17	85	10.9	0.90	0.90	99.10
18	85	8.1	0.57	0.57	99.43
19	85	10.4	0.76	0.76	99.24
20	85	10.2	0.91	0.91	99.09
Minimum Filter Efficiency: 99.07%			Maximum Filter Efficiency: 99.43%		

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Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
21	85	9.0	0.63	0.63	99.37
22	85	11.6	0.24	0.24	99.76
23	85	11.1	0.35	0.35	99.65
24	85	10.6	0.26	0.26	99.74
25	85	11.2	0.32	0.32	99.68
26	85	12.2	0.40	0.40	99.60
27	85	9.0	0.63	0.63	99.37
28	85	10.4	0.70	0.70	99.30
29	85	11.7	0.97	0.97	99.03
30	85	9.5	0.79	0.79	99.21
Minimum Filter Efficiency: 99.03%			Maximum Filter Efficiency: 99.76%		

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PRODUCT INSTRUCTION

MODEL: KF92 (Eurocup style)

ITEM: KF92 Protective Mask

APPLICATION:
Suitable for preventing aerosol powder, PM2.5, fine particles, and viruses 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 Non-woven fabric
Inner layer: PP Non-woven fabric
Executive standard: GB 2626-2006 KF92
Normality particulate filtering efficiency: >95%

STORAGE TEMPERATURE:
Temperature: -30° C ~ 40° C, humidity < 80%
Store in dry and cool place.

VALIDITY: Three years

INSTRUCTION FOR USE:

① Stretch face mask

② Place the ear-loop to face

③ Adjust and press the nose piece

④ 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.
6. Not suitable for use in environments with toxic gases or oxygen concentration's below 19.5%.
7. Cannot be used in microwave oven.

CUSTOMER SERVICE HOTLINE: 400-003-5003

MANUFACTURER:
Guangzhou Powecom Labor Insurance Supplies Co., Ltd
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