

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Guangzhou Sunjoy Auto Supplies Co., Ltd.

Model Tested: SUNJOY K1 - Ear Hook Folding Type

Date Tested: June 19, 2020

These findings pertain to the Guangzhou Sunjoy Auto Supplies Co., Ltd., model SUNJOY K1 - Ear Hook Folding Type. 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 99.30% and 31.70%, respectively. Seventeen respirators measured more than 95%. Thirteen 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:** June 19, 2020

**Report Prepared:** June 19, 2020

**Manufacturer:** Guangzhou Sunjoy Auto Supplies Co., Ltd.

**Item Tested:** SUNJOY K1 - Ear Hook Folding Type (Sample Group 1 of 3)

**Country of Certification:** China (GB2626-2006)

Pictures have been added to the end of this report.

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
1	85	10.1	6.37	6.37	93.63
2	85	10.3	0.89	0.89	99.11
3	85	7.7	59.20	59.20	40.80
4	85	10.6	5.67	5.67	94.33
5	85	11.0	1.03	1.03	98.97
6	85	5.6	67.20	67.20	32.80
7	85	10.4	1.01	1.01	98.99
8	85	9.8	6.20	6.20	93.80
9	85	16.7	25.30	24.30	75.70
10	85	6.0	62.60	62.60	37.40
<b>Minimum Filter Efficiency: 32.80</b>			<b>Maximum Filter Efficiency: 99.11</b>		

- 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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**Test:** Modified TEB-APR-STP-0059

**Date Tested:** June 19, 2020

**Report Prepared:** June 19, 2020

**Manufacturer:** Guangzhou Sunjoy Auto Supplies Co., Ltd.

**Item Tested:** SUNJOY K1 - Ear Hook Folding Type (Sample Group 2 of 3)

**Country of Certification:** China (GB2626-2006)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
11	85	10.3	1.33	1.33	98.67
12	85	10.4	44.07	44.07	55.93
13	85	10.8	0.87	0.87	99.13
14	85	10.9	2.47	2.47	97.53
15	85	12.0	1.07	1.07	98.93
16	85	9.5	1.26	1.26	98.74
17	85	12.9	1.82	1.82	98.18
18	85	12.4	1.68	1.68	98.32
19	85	11.3	1.72	1.72	98.28
20	85	11.8	1.11	1.11	98.89
<b>Minimum Filter Efficiency: 55.93</b>			<b>Maximum Filter Efficiency: 99.13</b>		

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**Test:** Modified TEB-APR-STP-0059

**Date Tested:** June 19, 2020

**Report Prepared:** June 19, 2020

**Manufacturer:** Guangzhou Sunjoy Auto Supplies Co., Ltd.

**Item Tested:** SUNJOY K1 - Ear Hook Folding Type (Sample Group 3 of 3)

**Country of Certification:** China (GB2626-2006)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
21	85	12.8	1.36	1.36	98.64
22	85	12.8	34.10	34.10	65.90
23	85	11.3	1.24	1.24	98.76
24	85	12.0	1.45	1.45	98.55
25	85	11.3	0.71	0.71	99.29
26	85	5.3	66.80	66.80	33.20
27	85	11.1	41.90	41.90	58.10
28	85	6.8	56.40	56.40	43.60
29	85	11.5	0.70	0.70	99.30
30	85	7.2	68.30	68.30	31.70
<b>Minimum Filter Efficiency: 31.70</b>			<b>Maximum Filter Efficiency: 99.30</b>		

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1. The product is valid for 3 years. Please use it within the validity period.  
2. Can be reused and destroyed after use.  
3. The packaging is damaged and it is forbidden to use it.  
4. Use with caution to people who are allergic to nonwovens.  
5. Please refer to the instructions before use.

### THE RIGHT WAY TO USE IT



1. Open the protective mask and cover the nose and mouth so that the nose clip is on the bridge of the nose.
2. Pull the ear cord with both hands and hang the ear cord behind the ears on both sides.
3. Pull the chin and the edge of the forehead of the protective mask with both hands, and make sure that the mask fits tightly on the face.
4. Press the tip of the two fingers from the midpoint of the bridge of the nose to the sides to make the nose clamp fit tightly with the bridge of the nose and face.

Standard: GB 2626-2006 KN95



Contraindications: None  
Special storage conditions and methods: Store in a non-corrosive gas and well-ventilated room where the relative humidity does not exceed 80%, and avoid high temperatures.  
Validity period: Hidden under the specified conditions, the validity period is 3 years.  
Packaging: 10 pcs / bag  
Product Date: See Certificate of Conformity.

MANUFACTURER: GUANGZHOU SUNJOY AUTO SUPPLIES CO., LTD.  
PRODUCTION ADDRESS: XIJIAN INDUSTRIAL ZONE, KENGTOU, NANCUN TOWN, PANWU DISTRICT, GUANGZHOU, GUANGDONG, CHINA  
COMPANY WEBSITE: WWW.SUNJOY-PROTECTION.COM  
SERVICE TELEPHONE: +86 20 818 0638



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