

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Rizhao Sanqi Medical & Health Articles Co., Ltd.

Model Tested: 3Q 9505

Date Tested: April 16, 2020

These findings pertain to the Rizhao Sanqi Medical & Health Articles Co., Ltd., 3Q 9505. The packaging indicates that this product 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 was 99.39% and 96.95%, respectively. All ten 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

Test: Modified TEB-APR-STP-0059

Date Tested: April 16, 2020

Report Prepared: April 17, 2020

Manufacturer: Rizhao Sanqi Medical & Health Articles Co., Ltd.

Item Tested: 3Q 9505

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	15.9	0.909	0.909	99.09
2	85	20.6	1.260	1.260	98.74
3	85	15.4	0.610	0.610	99.39
4	85	18.2	1.440	1.440	98.56
5	85	18.3	0.931	0.931	99.07
6	85	19.3	3.050	3.050	96.95
7	85	17.8	1.020	1.020	98.98
8	85	15.8	0.819	0.813	99.19
9	85	17.1	0.973	0.973	99.03
10	85	17.8	0.786	0.768	99.23
Minimum Filter Efficiency: 96.95			Maximum Filter Efficiency: 99.39		

- 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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【适用范围】

用于各类颗粒物的呼吸防护，如矿山作业、喷漆除漆、清除杂物、纤维粉尘及其它物料等过程产生的尘埃粒子；因酿酒而产生的液体或非油性的不产生有害性挥发气体的微生物颗粒；能有效过滤和净化所吸入的异常气体（有毒气体除外）；可帮助降低特殊工况环境下某些可吸入微生物颗粒（如霉菌、炭疽杆菌、结核杆菌等）的暴露水平及危害程度。

【注意事项】

1. 本产品不适用于缺氧环境、水下作业、逃生和消防用。
2. 不得滥用或改装本产品。
3. 佩戴时感觉不适或呼吸不畅、口罩本体受到血液或其他异物污染及损坏等情况时要停止使用或立即更换。
4. 男士面部胡须、毛发或其他条件可影响面部与口罩之间密封时，不宜使用本产品。
5. 防止机械挤压、潮湿、高温、日光暴晒、腐蚀性化学剂接触，建议存储温度0℃-50℃，相对湿度50%以下。

【佩戴方式】

1. 鼻夹朝上，口罩扣于下巴位置，将耳带挂于耳朵上，调节至贴合面部。
2. 抬鼻梁向鼻翼两侧，用双手食指按压鼻梁，贴合鼻梁。
3. 自我进行气密性检查，如发现气体泄漏，请重复以上1、2步骤。



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