NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Chongqing China Nano Technology Co., Ltd.
Model Tested: ZN6005
Date Tested: June 20, 2020

These findings pertain to the Chongqing China Nano Technology Co., Ltd., model ZN6005. The packaging for this product indicates 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 99.99% and 99.01%, 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 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).
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**Evaluation of International Respirators**

**Test:** Modified TEB-APR-STP-0059  
**Date Tested:** June 20, 2020  
**Report Prepared:** June 20, 2020  
**Manufacturer:** Chongqing China Nano Technology Co., Ltd.  
**Item Tested:** ZN6005 (Sample Group 1 of 3)  
**Country of Certification:** China (GB2626-2006)

<table>
<thead>
<tr>
<th>Filter</th>
<th>Flow Rate (Lpm)</th>
<th>Initial Filter Resistance (mmH2O)</th>
<th>Initial Percent Leakage (%)</th>
<th>Maximum Percent Leakage (%)</th>
<th>Filter Efficiency</th>
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<tbody>
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</table>

Minimum Filter Efficiency: 99.84  
Maximum Filter Efficiency: 99.99

- 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.
NPPTL COVID-19 Response: International Respirator Assessment

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

**Date Tested:** June 20, 2020

**Report Prepared:** June 20, 2020

**Manufacturer:** Chongqing China Nano Technology Co., Ltd.

**Item Tested:** ZN6005 (Sample Group 2 of 3)

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

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<th>Initial Percent Leakage (%)</th>
<th>Maximum Percent Leakage (%)</th>
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</table>

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Test: Modified TEB-APR-STP-0059

Date Tested: June 20, 2020

Report Prepared: June 20, 2020

Manufacturer: Chongqing China Nano Technology Co., Ltd.

Item Tested: ZN6005 (Sample Group 3 of 3)

Country of Certification: China (GB2626-2006)

<table>
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</tbody>
</table>

Minimum Filter Efficiency: 99.01

Maximum Filter Efficiency: 99.95

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Product Description

1. The outer and inner layer of the mask use breathable nonwoven, and the filter layers (the in-between layers) use the ultrafine fiber filter material. It can filter PM2.5 and other pollutants, remove pollen, animal dander, hair and other allergens.
2. Low inhalation resistance and exhalation resistance, quick to remove hot and humid, free to breathe.
3. Adjustable mounting brackets, convenient to wear.
4. Sealing sponge design, fit to the face, effectively enhance the sealing effect.
5. Do not use after washing.

Use Instructions

1. Set up the mask with two hands by holding the elastic loop straps, do not use your hands to touch the inside of the mask.
2. Place the mask over your nose and mouth with the metal nose clip at top. Ensure it covers your nose and mouth, and that the bottom part of the mask is covering your chin.
3. Secure the mask on your face by looping right ear loop strap onto your right ear. Repeat the same procedure with the left ear loop straps to the left ear.
4. Mold the nose clip to fit the shape of your nose to help reduce eyewear fogging and for a better seal and fit.
5. Deeply inhale and exhale to make sure there are no air leakages from the nose to the chin.

Note

If there are air leakages around the nose, adjust the nose mold. If there are air leakages around the mask edges, shorten the loop on both sides of the mask by tying a small knot to make a shorter loop. Adjust the size of the resized loops appropriately for a snug fitting to the face.

Manufacturer: CHnano Technology (Chongqing) Co., Ltd.
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Postcode: 404699
http://www.zhongnakeji.com
Tel: +86-023-81760588
CHnano®


certificate

产品名称：专业防护口罩 (非医用)
Product name: Respiratory Protective Mask (Non-medical)
产品型号/Product model: ZN6005
产品规格/Product specifications: 158mm x 115mm
主要成分: 无纺布、熔喷布
Main ingredients: non-woven fabric, melt blown fabric
执行标准/Executive standard: GB2626-2006
生产批号/MFG. lot number: 20200304
生产日期/MFG. date: 20200422
保质期: 储存湿度<70%, 储存温度0-40℃, 避光干燥的室内环境下, 有效期3年
Shelf life: Storage humidity <70%, Storage temperature 0-40℃, Keep in dry and dark indoor environment, valid for 3 years.
检验员/ Inspector:
生产商: 重庆中纳科技有限公司
Manufacturer: CHnano Technology (Chongqing) Co., Ltd.
地址: 重庆市奉节县移民生态产业园区盛园路3号
Add: 3# Shengyuan Road, Fengjie, Chongqing, China
服务热线/Tel: 023-81760668
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