Manufacturer: Zhongshan Zhongxin Medical Technology Co., Ltd. Model Tested: Protective Mask Date Tested: May 8, 2020

These findings pertain to the Zhongshan Zhongxin Medical Technology Co., Ltd., Protective Mask. The labeling for this product indicates that it meets EN149:2001+A1:2009 (the European standard for Respiratory Protective Devices – Filtering Half Masks to Protect Against Particles – Requirements, Testing, Marking).

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 <u>here</u>.

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 72.40% and 52.30%, respectively. All ten 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 <u>Crisis Capacity Strategies (during known</u> <u>shortages)</u>.

Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059

Date Tested: May 8, 2020

Report Prepared: May 9, 2020

Manufacturer: Zhongshan Zhongxin Medical Technology Co., Ltd.

Item Tested: Protective Mask

Country of Certification: China (EN149:2001+A1:2009)

Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency	
1	85	22.1	27.6	27.6	72.40	
2	85	16.5	39.7	39.7	60.30	
3	85	16.2	39.9	39.9	60.10	
4	85	18.6	30.1	30.1	69.90	
5	85	20.6	32.2	32.2	67.80	
6	85	18.2	36.7	36.7	63.30	
7	85	16.8	38.7	38.7	61.30	
8	85	16.1	38.8	38.8	61.20	
9	85	16.1	39.9	39.9	60.10	
10	85	12.5	47.7	47.7	52.30	
M	linimum Filter Effic	iency: 52.30	Maxi	Maximum Filter Efficiency: 72.40		

- 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.



Pictures have been added to the end of this report.



KN95 RESPIRATOR INSTRUCTIONS

Scope of application

Suitable for protection against harmful substance, such as dust, PM2.5 haze particles, influenza bacteria, droplets, etc. This product also has the function of protecting against wind and cold. Precautions:

1. If the packaging and respirators are damaged or stained, please replace the respirators with new ones.

2. Please read the instructions carefully before use. Improper use will cause invalid protection.

3. The use of products beyond the expiration date is prohibited.

4. Suggest replacement within one week.

Maintenance Notes:

I. If the microfiber cover is stained, use a damp cloth to wipe it gently. Do not use a lot of water, fertilizer, soap and detergent for washing

2. The microfiber cover can be wiped regularly with alcohol cotton

3. Do not fold or flatten masks during storage

Implementation standards and filtering levels: GB2626. 2006 KN95 Main materials: Multi-layer micro-filtration non-woven fabric, PP breathing valve (other styles without breathing valve), etc.

Storage conditions: temperature 10 to 25°C, relative humidity <80%, cool and ventilated environment

Shelf life: unopened, three years

Production date: See box for details

Size: all sizes

Manufacturer: Zhongshan Zhongxin Medical Technology Co., Ltd.



Embrace each day with love, touch everyone with heart









