



中国认可  
国际互认  
检测  
TESTING  
CNAS L10118

# 国健检测

## Test Report

(2021) WSZ FHL NO. 1694

Product Name 3M 9513 Particulate Respirator KN95 (Black)

Client 3M China Co. Ltd

Manufacturer 3M Korea Ltd.

Test Type Entrusted inspection

Jiangsu Guojian Testing Technology Co., Ltd



# Test Report

[2021] WSZ FHL NO.1694

Page 1 of 8

Product name	3M 9513 Particulate Respirator KN95 (Black)	Specification	9513
		Brand	3M
Client/Add/Tel	3M China Co.Ltd/222 Tian Lin Road Shanghai/22105222		
Manufacturer/Add/Tel	3M Korea Ltd./18, Jangangongdan 1-gil, Jangan-myeon, Hwaseong-si, Gyeonggi-do,18579, Korea/22105222		
Sample grade	KN95	Sample number	GW1694-2021
Sample quantity	60 pcs	Receiving date of sample	29/10/2021
Test type	Entrusted inspection	Article number/Batch number/Style number	—
Test date	29/10/2021 ~05/11/2021	Testing sites	Testing rooms
Sample state	Meeting the requirements of testing	Sample description	Black
Test standard(s)	GB 2626-2019 Respiratory protection — Non-powered air-purifying particle respirator		
Test item(s)	Appearance requirements, basic requirements, filtration efficiency, head harness, respiratory resistance, total inward leakage, flammability, vision, dead space, practical performance, marking, information provided by the manufacturer, packing		
Test conclusion	The sample upon testing, the test items meet the requirements of the GB 2626-2019 standard. The detail of test results see on Page		
Note	For the entrusted sample test, the technical responsibilities are undertaken for the test results of the supplied samples only.		



Approver: 苏晓群      Reviewer: 万恒      Chief Tester: 杨莹

# Test Result

[2021] WSZ FHL NO.1694

Page 2 of 8

S.No.	Test item	Unit	Technical requirement	Test result	Single item decision
1	Basic requirements	—	<p>Materials shall have sufficient strength and shall not break or deform during the service life. The mask shall not produce obvious tenderness or tingling when worn.</p> <p>The design shall be less prone to structural damage; the design, composition and installation of components shall not pose any danger to the user; headband design shall be elastic or adjustable, easy to wear and removal, able to hold the mask firmly on the face and not show significant compression or tenderness when worn; Should not significantly affect the field of vision; Respirators using replaceable exhalation valves should be designed to be easily replaced, which can enable the wearer to check the air tightness of the mask and face at any time and conveniently, and do the wearing air tightness check; The front of the exhalation valve should be protected, and the exhalation valve protection device can be a special component, or it can play a protective role with the help of other components on the mask; disposable mask structure shall be able to ensure close contact with the face, and shall not be deformed during the service life.</p>		Pass

# Test Result

[2021] WSZ FHL NO.1694

Page 3 of 8

S.No.	Test item	Unit	Technical requirement	Test result	Single item decision
2	Appearance requirements	—	The surface of the sample shall not be damaged, deformed and have obvious other defects; components and structures shall be able to withstand normal conditions of use and the temperature, humidity and mechanical impact possibly encountered; after the pretreatments of temperature, humidity and mechanical strength, the parts shall not fall off, be damaged and deformed.		Pass
3	Respiratory resistance	Pa	Inspiratory resistance $\leq 210$		Pass
			Expiratory resistance $\leq 210$		Pass
4	Head harness	—	Not appearing slippage or breakage to withstand 10N tensile force lasting 10s .		Pass
5	Flammability	—	Parts exposed to the flame shall not burn after having been removed from the flame, if burned, the afterflame time shall not exceed 5s.		Pass
6	Dead space	—	$\leq 1\%$		Pass
7	Vision	—	View below $\geq 35^\circ$		Pass
		—	Binocular vision $\geq 65\%$		

# Test Result

[2021] WSZ FHL NO.1694

Page 4 of 8

S.No.	Test item	Unit	Technical requirement	Test result	Single item decision
8	Filtration efficiency	—	$\geq 95.0\%$		Pass
9	Total inward leakage	—	TIL <11% for at least 46 exercises in 50 exercises, and TIL <8% for at least 8 of 10 subjects.		Pass

# Test Result

[2021] WSZ FHL NO.1694

Page 5 of 8

S.No.	Test item	Unit	Technical requirements	Test result	Single item decision
10	Practical performance	—	<p>(a) Fast walking test: The subjects walked in normal posture on the horizontal running platform with a walking speed of 6.0km/h and a duration of 10min. (b) Bending walking test: The subjects walked in a bending posture on the horizontal running platform, the height of the bending posture was controlled to be (1.3±0.2)m, the duration was 5min, and the total walking distance was about 140m. (c) Pipeline test: the subject crawls in a pipeline with a width of (0.70±0.05)m and a length of 4 m. The roof of the pipeline should be so low as to restrict the subject from carrying a respirator, but take it off, push it in front or pull it behind, but still breathe through the respirator. (d) Filling test: The subjects fill the basket with a volume of about 8L with test materials, bend over or fill the basket with test materials crisply, then stand up and pour the test materials in the basket into a container with a height of 1.5m, which is repeated for about 20 times within 10min. The sequence of test items shall be determined by the person in charge of the test as appropriate, and the total test time shall be no less than 30min. Unless otherwise specified in the standard of this type of respirator, the implementation of test items shall be continuous, and the respirator shall not be removed between each test item. After that test, the subject independently evaluate the practical performance of the test respirator according to their actual feelings about the relevant evaluation item. Subjective evaluation adopts a 5-point scoring method; 5 points indicates the best feeling for an evaluation item, 3 points indicates moderate feeling, and 1 point indicates unacceptable feeling.</p>		Pass

# Test Result

[2021] WSZ FHL NO.1694

Page 6 of 8

S.No.	Test item		Unit	Technical requirements	Test result	Single item decision
11	Mark	Product identification	—	<p>The product shall have the following mark:</p> <p>a) Name, trademark or other marks that can identify the manufacturer or supplier;</p> <p>b) Type and size designation (if applicable);</p> <p>c) Executive standard number, the filter element shall be marked with the level, and the level is marked by the combination of the standard number and filter element level, such as GB2626-2019 KN90 or GB2626-2019 KP100.</p>		Pass
		Package	—	<p>Following information in a clean and durable manner in Chinese at least shall be marked on the minimum sale package or can be seen through the transparent packaging:</p> <p>a) Name, trademark or other marks that can identify the manufacturer or supplier;</p> <p>b) Executive standard number, the filter element shall be marked with the level, and the level is marked by the combination of the standard number and filter element level, such as GB2626-2019 KN90 or GB2626-2019 KP100;</p> <p>c) Applicable license or certification information;</p> <p>d) Production date (at least year and month) or production batch number, storage life;</p> <p>e)"See information provided by manufacturer";</p> <p>f) Storage conditions recommended by the manufacturer (including temperature and humidity).</p>		

# Test Result

S.No.	Test item	Unit	Technical requirements	Test result	Single item decision
12	Information provided by the supplier	—	<p>The information provided by the manufacturer shall comply with the following requirements:</p> <p>a) It shall be provided with minimum sales package.</p> <p>b) There shall be instructions in Chinese.</p> <p>c) It shall include the following information that the user must know:</p> <p>1) application scope and limitations, shall include (but not limited to) applicable particulate categories (such as oil or non-oil) , protective factors specified for inhalers, and/or other non-applicable application environment; if the product is not designed to be flame-retardant, there shall be a "this product is not suitable for the presence of open flame workplaces (such as welding, casting, etc.)" text description</p> <p>2) check method before use;</p> <p>3) method of wearing and inspection method of air tightness;</p> <p>4) The method of judging its service life</p> <p>5) storage method;</p> <p>6) the meaning of any symbols and ICONS used.</p> <p>d)It shall provide a snapshot of possible problems in use, such as:</p> <p>1) suitability;</p> <p>2) the hair under the closed frame will cause the mask to leak;</p> <p>3) air quality (pollutants, hypoxia, etc.).</p> <p>e)The information shall be clear, with explanations, part numbers and notes to help.</p>		Pass
13	Package	—	<p>The packaging for sale shall protect the product from mechanical damage and contamination prior to use.</p>		Pass
Note	<hr style="width: 50%; margin: auto;"/>				

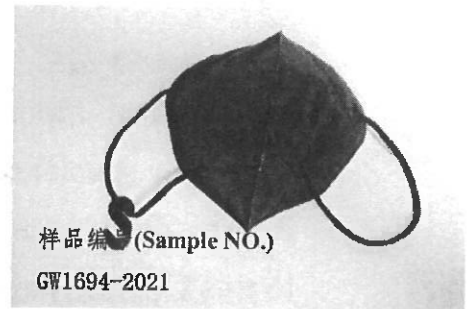


# Test Result

[2021] WSZ FHL NO.1694

Page 8 of 8

## Annex A- Sample Photo



————— The end —————

## Points For Attention

1. This test report shall not be valid if it is not stamped with this Company special seal or data modification for the test report.
2. Any dissidence with the test results in this report should be submitted to this Company within 15 days from the date of receiving the report.
3. As for entrusted inspection of sample supplied by client, this Company is only responsible for the test results of the sample, which are used to provide the client with a good understanding of the sample quality.
4. This test report shall not be reproduced in any way without permission. The copy of the test report shall be reproduced in full and shall be valid after confirmed by this Company for affixing the special seal of test report.
5. The remaining samples of the test must be taken back within three months or shelf life whichever is shorter from receiving this test report. Those which are overdue to be taken back will be dealt with in accordance with this Company's regulations.

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