

PPE TEST REPORT

Prepared For :	Shenzhen Weifa Technology Co., Ltd.			
	Room 403, Building 117, Sungang Village, Baogang Road, Sungang Street, Luohu District, Shenzhen,518100,CN			
Trade Mark :	STARKIT			
Product Name :	N95 face mask			
Model(s):	STMK-N9W01 ,STMK-N9B02,STMK-N9BK03,STMK-R3W01, STMK-R3B02,STMK-R3BK03,STMK-NX01,STMK-NX02, STMK-NX03,STMK-NX04			
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Test Date:	Feb. 03, 2020 - Mar. 08, 2020			
Date of Report:	Mar. 08, 2020			
Report No. :	CCT20031203TRS			

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen CCT Testing Technology Co., Ltd.



TEST REPORT

EN 149: 2001+A1:2009

Respiratory Protective Devices - Filtering Half Masks to Protect Against Particles

- Requirements, Testing, Marking

Reference No. CCT20031203TRS

Date of issue Mar. 08, 2020

Contents...... 12 pages

Testing laboratory

Name Shenzhen CCT Testing Technology Co., Ltd.

8th Floor, Area I, Building 1, Hanhaida Science and Technology

Address....... Innovation Park, Guangming New District, Shenzhen,

Guangdong, China

Testing location Same as above

Client

Name Shenzhen Weifa Technology Co., Ltd.

. Room 403, Building 117, Sungang Village, Baogang Road,

Sungang Street, Luohu District, Shenzhen,518100,CN

Test specification

Standard EN 149: 2001+A1:2009

Test procedure CE- PPE

Procedure deviation...... N.A.

Non-standard test method...... N.A.

Test item

Description...... N95 face mask

Trademark STARKIT

Model and/or type reference: STMK-N9W01

Manufacturer Shenzhen Weifa Technology Co., Ltd.

Address...... Room 403, Building 117, Sungang Village, Baogang Road,

Sungang Street, Luohu District, Shenzhen,518100,CN

Classification..... FFP2



Test case verdicts

Test case does not apply to the test object..........: N(.A.)

Test item does not meet the requirement F(ail)

Testing

Date of receipt of test item Feb. 03, 2020

Date(s) of performance of test.....From Feb. 03, 2020 to Mar. 08, 2020

General remarks

This test report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item tested.

"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

Remark:

- -The EUT complies with the standard EN 149 requirement.
- -This technical report is only used for internal reference of the company, and not for any other legal basis and use.



Copy of marking plat	e:		
	N95 face mask		
	Model:	STMK-N9W01	
	Classification:	FFP2	
		$ \mathbf{i} $	
	Shenzhen Weifa Made in China	Technology Co., Ltd.	
Note: hecause of the sa	umeness of labels of	only above label is listed	
vote. Beddade of the se	meness of labels, o	my above label to floted	



EN 149: 2001+A1:2009					
Clause	Requirement – Test	Result - Remark	Verdic		
5	Classification		Р		
<u> </u>	Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are three classes of devices:	Compled with standard, se appened.	P		
	- FFP1	>80% filter effeciency	Р		
	- FFP2	>94% filter effeciency	Р		
	- FFP3		N		
6	Particle filtering half masks meeting the requirements of this European Standard. Year of publication, classification	"D" clearly marked	Р		



	EN 149: 2001+A1:2009						
Clause	Requirement – Test	Result - Remark	Verdict				
	The laboratory tests shall wearer to protect with high probability against the potential hazard to be expected.	Enough safe condition is provide	Р				
	Exercise results for total inward leakage shall be not greater than 25% for FFP1 11% for FFP2	FFP2, not exceed 11%	Р				
	5% for FFP3						
7.9.2	Penetration of filter material		Р				
	meet the requirements of Table 2.	Complied, see below test	Р				
7.10	Compatibility with skin		Р				
	the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.	Have no irritation or adverse effect to skin and health	Р				
7.11	Flammability	Have no such hazard	Р				
	The material used shall not present a danger for the wearer and shall not be of highly flammable nature.		Р				
7.12	Carbon dioxide content of the inhalation air		N				
	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).	<1.0%	Р				
7.13	Head harness						
	Head harness shall be designed can be donned and removed easily and adjustable or self-adjusting and sufficiently robust to hold the particle	The designing is considered	P				
7.14	Field of vision		Р				
	Field of vision is acceptable in practical performance tests.	Clear field of vsion when wearing	Р				
7.15	Exhalation valve(s)		Р				
	A particle filtering half mask may have one or more exhalation valve(s) and shall function correctly in all orientations.	One valve provided	N				
	Exhalation valve is provided it shall be protected against or be resistant to dirt and mechanical damage and may be shrouded or may include any other device	Clearly function	Р				
	Exhalation valve(s) shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.	Complied, see below	Р				
	Exhalation valve housing is attached to the faceblank, and withstand axially a tensile force of 10 N applied for 10 s.	Enough strong	Р				
7.16	Breathing resistance		Р				



EN 149: 2001+A1:2009				
Clause Requirement - Test Result - Remark Verd				

	Ereathing resistances apply to valved and valveless and shall meet the requirements	Complied, see below test	Р
7.17	Clogging		N
7.17.1	General	single-use device	N
	For single-use devices clogging test is an optional test.	3	N
	Devices designed to be resistant to clogging, shown by a slow increase		N
	The specified breathing resistances shall not be exceeded before the required dust load of 833 mg·h/m3.		N
7.17.2	Breathing resistance		N
7.17.2.1	Valved particle filtering half masks		N
7.17.2.2	Valveless particle filtering half masks		N
	After clogging the inhalation and exhalation resistances shall not exceed 3/4 FFP1: 3 mbar 3/4 FFP2: 4 mbar 3/4 FFP3: 5 mbar		N
	at 95 l/min continuous flow.		N
7.17.3	Penetration of filter materia		N
7.11.0	All types claimed to meet the clogging requirement shall also meet the penetration requirements given in 7.9.2 after the treatment.		N
7.18	Demountable parts	No any such part	N
	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.		
9	Marking		
9.1	Packaging		Р
	The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.	Complied, clearly marked	P
9.1.1	The name, trademark or other means of identification of the manufacturer or supplier.	See user manual	Р
9.1.2	Type-identifying marking.		Р
9.1.3	Classification: FFP1, FFP2, FFP3. FFP2		Р
9.1.4	The number and year of publication of this European Standard.	See above	Р
9.1.5	At least the year of end of shelf life.	2 years	Р
9.1.6	The sentence 'see information supplied by the manufacturer', at least in the official	English used	



	EN 149: 2001+A1:2009						
Clause	Requirement – Test	Result - Remark	Verdict				
	language(s) of the country of destination, or by using the pictogram as shown in Figure 12b.						
9.1.7	The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d.	See user manual	Р				
9.1.8	The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D".		Р				
9.2	Particle filtering half mask		Р				
	Particle filtering half masks		Р				
	complying with this European Standard shall be clearly and durably marked with the following:		Р				
9.2.1	The name, trademark or other means of identification of the manufacturer or supplier.	Shenzhen Weifa Technology Co., Ltd.	Р				
9.2.2	Type-identifying marking.		Р				
9.2.3	The number and year of publication of this European Standard.	See above	Р				
9.2.4	The symbols FFP1, FFP2 or FFP3 according to class.	FFP2	Р				
9.2.5	If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the class designation (see 9.2.4).		N				
9.2.6	Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.		N				
10	Information to be supplied by the manufacturer		Р				
10.1	Information supplied by the manufacturer shall be at least in the official language(s) of the country of destination.	English	Р				
10.3	The information supplied by the manufacturer shall contain all information necessary for trained and qualified persons on 3/4 application/limitations; 3/4 the meaning of any colour coding;	See user manual	Р				
	 3/4 checks prior to use; 3/4 donning, fitting; 3/4 use; 3/4 maintenance (e.g. cleaning, disinfecting), 	See user manual	Р				



	EN 149: 2001+A1:20	09	
Clause	Requirement – Test	Result - Remark	Verdict
	if applicable; 3/4 storage; 3/4 the meaning of any symbols/pictograms used of the equipment.		
10.4	The information shall be clear and comprehensible. If helpful, illustrations, part numbers, marking shall be added.	Clearly considered	Р
10.5	Warning shall be given against problems likely to be encountered, for example: 3/4 fit of particle filtering half mask (check prior to use); 3/4 it is unlikely that the requirements for leakage will be achieved if facial hair passes under the face seal; 3/4 air quality (contaminants, oxygen deficiency); 3/4 use of equipment in explosive atmosphere.		P
10.6	The information shall provide recommendations as to when the particle filtering half mask shall be discarded.		Р



Attachments: test table

Table 8.5	Leakag	je test	test				
Item	dels	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	
NaCl flow rate	(L/min)	90	105	105	110	120	
NaCl aerosol ((um)	0.3	0.3	0.3	0.3	0.3	
Pumping flow (L/min)	rate	30	30	30	30	30	
NaCl concentro before mask (Mg/m3)	ation	2	2	2	2	2	
NaCl concentr after mask (Mg/m3)	ration	0.32	0.27	0.29	0.30	0.23	

Table 8.9.1 Breath	Р				
Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Inhalation gas velocity (L/min)	30	30	30	30	30
Maximum resistance (mbar)	0.39	0.40	0.37	0.35	0.45

Note: Maximum permitted resistance < 0.6 mbar



Table 8.9.2 Exhala	Р				
Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Inhalation gas velocity (L/min)	95	95	95	95	95
Maximum resistance (mbar)	1.80	1.72	1.82	1.69	1.75
Note: Maximum permitted resistance < 2.1 mbar					

Table 8.9.3 Breath	Р				
Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Exhalation (L/min)	160	160	160	160	160
Maximum resistance (mbar)	1.72	1.76	1.77	1.77	1.78

Note: Maximum permitted resistance < 3.0 mbar



Attachments: real photos

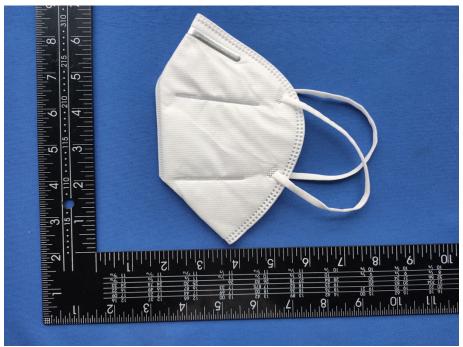


Photo 1



Photo 2