

# Face Mask FFP2/KN95 - JH

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Item no: PFFPJH01

Premium folding shaped mask, customized facial design with good tightness and breathability. Adjustable nose clip and skin friendly fabric. High filtration efficiency for particles above 95%.

**Protection Class: FFP2/KN95** 

**Particle Filtration Efficiency:** ≥ 95%

**CE Certificate:** EN 149:2001+A1:2009

KN95: GB2626-2006

Material: Non-woven, melt-blown fabric, soft cotton

**Color:** White

**HS Code:** 6307909810

**Packaging:** 2 pcs/bag, 50 pcs/box, 500 pcs/carton • 5,3 kg/carton (52,5 x 32,5 x 48,5 cm)

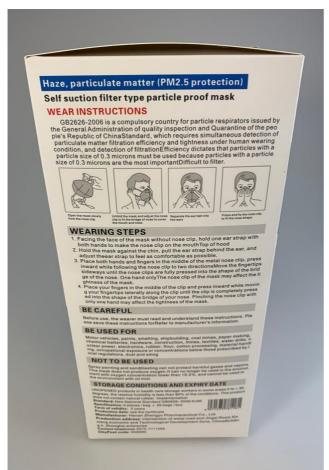










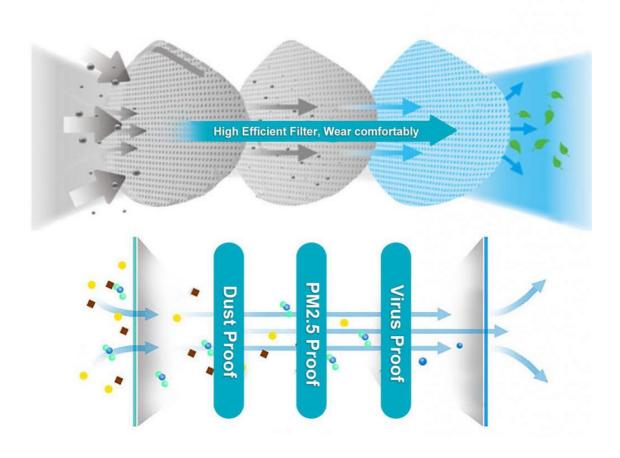








# Multiple Protection High Efficient Filter









Form QAT\_10-M04, version 00, effective since March 6th, 2020

# Certificate of Compliance

No. 0P200328S.HZP0S48

Technical Construction File no. TPHN20031822818

Certificate's Holder:

Certification ECM Mark:



Product: Self-priming filter anti-particulate respirator

(professional protective mask)

Model(s): KY-KN95 adult type, KY-KN95 child type

Verification to: Standard:

EN 149: 2001+A1:2009

related to CE Directive(s):

R 2016/425 (Personal Protective Equipment)

**Remark:** This document has been issued on a voluntary basis and upon request of the manufacturer. It is our opinion that the technical documentation received from the manufacturer is satisfactory for the requirements of the ECM Certification Mark. The conformity mark above can be affixed on the products accordingly to the ECM regulation about its release and its use.

Additional information and clarification about the Marking:



The manufacturer is responsible for the CE Marking process, and if necessary, must refer to a Notified Body. This document has been issued on the basis of the regulation on ECM Voluntary Mark for the certification of products. RG01\_ECM rev.3 available at: www.entecerma.it

Issuance date: 28 March 2020 Expiry date: 27 March 2025





#### **Ente Certificazione Macchine Srl**

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Page 1 of 17

TPHN20031822818

# **Technical Construction File** EN 149: 2001+A1:2009

Respiratory protective devices - Filtering half masks to protect

Respiratory protective devices - Filtering half masks to protect		
against pa	rticles - Requirements, testing, marking	
Report reference No		
Compiled by (+ signature)	Stephen Zhang / Test Engineer	
Approved by (+ signature)	Kosco Vent / Project Manager	
Date of issue		
Reviewing laboratory	Shanghai Global Testing Services Co., Ltd.	
Reviewing location	.: Floor 2nd, Building D-1, No. 128, Shenfu Road, Minhang District,	
	Shanghai, China.	
	: Henan Zhengyu Pharmaceutical Co., Ltd.	
Address	501, 4th Building, Zhongkai Enterprise City, Intersection of Jingshiyi Road and Weiqi Road, Jingkai District, Xinxiang City	
Manufacturer	: Henan Zhengyu Pharmaceutical Co., Ltd.	
Address	501, 4th Building, Zhongkai Enterprise City, Intersection of Jingshiyi	
	Road and Weiqi Road, Jingkai District, Xinxiang City	
Factory	: The same as Manufacturer	
Address	: The same as Manufacturer	
Standard	: 🛮 EN 149: 2001+A1:2009	
Review Report Form No	: 149	
TRF originator	: GTS	
Master TRF	: Reference No. EN 149: 2001+A1:2009	
Review procedure	: GTS	
Type of Review object	: Self-priming filter anti-particulate respirator (professional protective mask)	
Trademark	: -	
Model/type reference	: KY-KN95 adult type, KY-KN95 child type	
Rating	: 1	





Henan Zhengyu Pharmaceutical Co., Ltd.

Page 2 of 17

Possible review case verdicts:	
- review case does not apply to the test of	pject N(.A.)
- review object does meet the requiremen	t P(ass)
- review object does not meet the requirer	nent F(ail)
General remarks:	
"(see remark #)" refers to a remark appen	ded to the report.
"(see appended table)" refers to a table ap	opended to the report
San Alder State Committee	AT TO SECOND SECOND
Throughout this report a comma is used a	s the decimal separator.
The review results presented in this report	t relate only to the object reviewed.
This report shall not be reproduced even	t in full without the written approval of the third party.
This report shall not be reproduced excep	tili uli willout the whiten approval of the tiliu party.
Testing:	
Date of receipt of review item:	March 18,2020
Date(s) of performance of review:	March 18,2020 to March 28,2020
General product information:	
Self-priming filter anti-particulate respirate	or (professional protective mask)
Summary of reviewing:	
T1.7000000000000000000000000000000000000	
This review report includes:	
Annex I: 2 page(s) of photo documentation	on.
Annex 1. 2 page(3) or prioro documentant	л.
Copy of marking plate	
Self-priming filter anti-particulate respir	rator Marking
(professional protective mask)	ator Marking CE
Model:KY-KN95 adult type, KY-KN95 chi type	ld L



CTS

Page 3 of 17

	I.B.		
4	Description	1	1.570
	A particle filtering half mask covers the nose and mouth and the chin and may have inhalation and/or exhalation valve(s). The half mask consists entirely or substantially of filter material or comprises a facepiece in which the main filter(s) form an inseparable part of the device.  It is intended to provide adequate sealing on the	No inhalation and/or exhalation valve(s)	P
	face of the wearer against the ambient atmosphere, when the skin is dry or moist and when the head is moved.		
	Air enters the particle filtering half mask and passes directly to the nose and mouth area of the		
	facepiece or, via an inhalation valve(s) if fitted. The exhaled air flows through the filter material and/or an exhalation valve (if fitted) directly to the ambient atmosphere.		
	These devices are designed to protect against both solid and liquid aerosols.		
5	Classification	· · · · · · · · · · · · · · · · · · ·	177
	Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are three classes of devices: FFP1, FFP2 and FFP3. The protection provided by an FFP2 - or FFP3 - device includes that provided by the device of lower class or classes.		Р
6	Designation		1 <u>22</u> 0
	Particle filtering half masks meeting the requirements of this European Standard shall be designated in the following manner:		Р
7	Requirements		=
7.1	General	( )	-
	In all tests all test samples shall meet the requirements.	8	Р
7.2	Nominal values and tolerances		(EE)
	Unless otherwise specified, the values stated in this European Standard are expressed as nominal values. Except for temperature limits, values which are not stated as maxima or minima shall be		Р
	subject to a tolerance of $\pm$ 5 %. Unless otherwise specified, the ambient temperature for testing shall be (16 - 32) $^\circ$ C, and the temperature limits shall		
	be subject to an accuracy of $\pm$ 1 $^{\circ}$ C.		
7.3	Visual inspection	· · · · · · · · · · · · · · · · · · ·	
	The visual inspection shall also include the marking and the information supplied by the		Р





# Page 4 of 17

	manufacturer.		
7.4	Packaging		-
	Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.  Testing shall be done in accordance with 8.2.		P
7.5	Material		1-0
	Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used. After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.  Three particle filtering half masks shall be tested. When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.		P
	Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.  Testing shall be done in accordance with 8.2.		
7.6	Cleaning and disinfecting		120
	If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer."  Testing shall be done in accordance with 8.4 and 8.5.  With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.  Testing shall be done in accordance with 8.11.	disposable	N/A
7.7	Practical performance		<u> </u>
	The particle filtering half mask shall undergo practical performance tests under realistic conditions.  These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard.  Where practical performance tests show the apparatus has imperfections related to wearer's acceptance, the test house shall provide full details of those parts of the practical performance tests which revealed these imperfections.  Testing shall be done in accordance with 8.4.		P





Page 5 of 17

7.8	Finish of parts	28	( <del>=5</del> )
	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.  Testing shall be done in accordance with 8.2.		Р
7.9	Leakage		
7.9.1	Total inward leakage		=
13.1	The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected.  The total inward leakage consists of three components: face seal leakage, exhalation valve leakage (if exhalation valve fitted) and filter penetration.  For particle filtering half masks fitted in accordance with the manufacturer' s information, at least 46 out of the 50 individual exercise results (i.e. 10 subjects x 5 exercises) for total inward leakage shall be not greater than 25 % for FFP1  11 % for FFP2  5 % for FFP3  and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than 22 % for FFP1  8 % for FFP2  2 % for FFP3.  Testing shall be done in accordance with 8.5.		P
7.9.2	Penetration of filter material		155
1.3.2	The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1.  Table 1 — Penetration of filter material  Classification  Sodium chloride test 95 timen  W. Paraffin of test seroed © Paraffin of test seroed © W. Paraffin of test 95 timen  Max. Max. Max. Max. Max. Max. Max. Max.		Р
	A total of 9 samples of particle filtering half masks shall be tested for each aerosol.  Testing in accordance with 8.11 using the Penetration test according to EN 13274-7, shall be performed on:  - 3 samples as received;  - 3 samples after the simulated wearing treatment described in 8.3.1.  Testing in accordance with 8.11 using the Exposure test with a specified mass of test aerosol of 120 mg, and for particle filtering devices claimed to be re-usable additionally the Storage test, according to EN 13274-7, shall be performed:		P





Page 6 of 17

wearer's skin shall not be known to be likely to	-6
to the manufacturer's instruction. "  7.10 Compatibility with skin  Materials that may come into contact with the wearer's skin shall not be known to be likely to	2)
7.10 Compatibility with skin   Materials that may come into contact with the wearer's skin shall not be known to be likely to	<u> </u>
wearer's skin shall not be known to be likely to	
cause irritation or any other adverse effect to health.  Testing shall be done in accordance with 8.4 and 8.5.	o
7.11 Flammability -	<u>88</u>
The material used shall not present a danger for the wearer and shall not be of highly flammable nature.  When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5 s after removal from the flame.  The particle filtering half mask does not have to be usable after the test.  Testing shall be done in accordance with 8.6.	o o
7.12 Carbon dioxide content of the inhalation air -	75
The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).  Testing shall be done in accordance with 8.7.	)
	<u> </u>
The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.  The head harness shall be adjustable or selfadjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device.  Testing shall be done in accordance with 8.4 and 8.5.	•
	23
7.14 Field of vision -	
	•





Page 7 of 17

					**	
		valve(s), w	mask may ha hich shall fund	ve one or more ction correctly		N/A
	Testing sha 8.9.1.	all be done	in accordance	with 8.2 and		
	4 68 Yes 182	ation valve	is provided it s	shall be		
			e resistant to			
				rouded or may e necessary for		
			If mask to con			
	Testing sha	all be done	in accordance	with 8.2.		
	A CONTRACTOR OF THE STATE OF TH		fitted, shall co			
			riod of 30 s.	exhalation flow		
			in accordance	with 8.3.4.		
	0.8008000000000000000000000000000000000		valve housing			
	55579 (0.000) 577 (570)		withstand axia	Illy a tensile		
		N applied	ior 10 s. in accordance	with 0.0		
7.16			in accordance	with o.o.	+	9 52
1.10	Breathing r					
			nces apply to ving half masks			Р
			s of Table 2.	s and shall		
			in accordance	with 8.9.		
	Table 2 — Breathing resistance			3	\(\text{\(\frac{1}{2}\)}\)	
	Classification		imum permitted resistance eletion	(mbar) exhalation		
		30 l/min	95 l/min	160 l/min		
	FFP1	0,8	2,1	3,0		
	FFP3	0,7 1,0	2,4 3,0	3,0		
7.17	Clogging					<u> 120</u>
7.17.1	General					
A CALLACT	0.707.000000	shift use de	ovices the cla	gaing toot is an		Р
	For single shift use devices, the clogging test is an optional test. For re-usable devices the test is					, E
	mandatory ."					
	Devices designed to be resistant to clogging,					
			ase of breathi			
	when loaded with dust, shall be subjected to the treatment described in 8.10.					
	The specified breathing resistances shall not be					
	exceeded before the required dust load of 833 mg					
7.17.2	h/m 3 is r  Breathing r				3	
7.17.2.1	9	Maria Santa tel	half masks			N/A
7.17.2.2			ring half mask	c	1 4:	P
7.17.3	DESCRIPTION OF THE PROPERTY OF	of filter ma		3		
1.11.3				article filtering		
			meet the clog			"
			meet the requ			





Page 8 of 17

	given in 7.9.2, for the Penetration test according to EN 13274-7, after the clogging treatment.  Testing shall be done in accordance with 8.11 using EN 13274-7		
7.18	Demountable parts	ie – ž	140
	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand. Testing shall be done in accordance with 8.2.		Р
8	Testing	8/	-
8.1	General	3e - 3	
	If no special measuring devices and methods are specified, commonly used devices and methods shall be used.  Before performing tests involving human subjects account should be taken of any national regulations concerning the medical history, examination or supervision of the test subjects.		Р
8.2	Visual inspection		=
	The visual inspection is carried out where appropriate by the test house prior to laboratory or practical performance tests.		Р
8.3	Conditioning		-
8.3.1	Simulated wearing treatment		125
	Conditioning by simulated wearing treatment shall be carried out by the following process. A breathing machine is adjusted to 25 cycles/min and 2,0 l/stroke. The particle filtering half mask is mounted on a Sheffield dummy head. For testing, a saturator is incorporated in the exhalation line between the breathing machine and the dummy head, the saturator being set at a temperature in excess of 37 ° C to allow for the cooling of the air before it reaches the mouth of the dummy head. The air shall be saturated at $(37 \pm 2)$ ° C at the mouth of the dummy head. In order to prevent excess water spilling out of the dummy's mouth and contaminating the particle filtering half mask the head shall be inclined so that the water runs away from the mouth and is collected in a trap. The breathing machine is brought into operation, the saturator switched on and the apparatus allowed to stabilize. The particle filtering half mask under test shall then be mounted on the dummy head. During the test time at approximately 20 min intervals the particle filtering half mask shall be completely removed from the dummy head and refitted such that during the test period it is fitted ten times to the dummy head.		P
8.3.2	Temperature conditioning	*	=





Page 9 of 17

	1 age 3 of 17		
	Expose the particle filtering half masks to the following thermal cycle:		Р
	a) for 24 h to a dry atmosphere of (70 $\pm$ 3) $^{\circ}$ C;		
	b) for 24 h to a temperature of (-30 $\pm$ 3) $^{\circ}$ C;		
	and allow to return to room temperature for at least 4 h between exposures and prior to subsequent testing.  The conditioning shall be carried out in a manner		
0.2.2	which ensures that no thermal shock occurs.		Scali
8.3.3	Mechanical strength		-
	Conditioning shall be done in accordance with EN 143.	Withstand 10N tension for 10s	Р
8.3.4	Flow conditioning		-
	A total of 3 valved particle filtering half masks shall be tested, one as received and two temperature conditioned in accordance with 8.3.2.		N/A
8.4	Practical performance		277
8.4.1	General		535
	A total of 2 particle filtering half masks shall be tested: both as received.		Р
	All tests shall be carried out by two test subjects at ambient temperature and the test temperature and		
	humidity shall be recorded.		
	Prior to the test there shall be an examination to assure that the particle filtering half mask is in good working condition and that it can be used without hazard.		
	Examination shall be done in accordance with 8.2.		
	For the test, persons shall be selected who are familiar with using such or similar equipment.		
	During the tests the particle filtering half mask shall be subjectively assessed by the wearer and after the test, comments on the following shall be recorded:		
	a) head harness comfort;		
	b) security of fastenings;		
	c) field of vision;		
	<ul> <li>d) any other comments reported by the wearer on request.</li> </ul>		
8.4.2	Walking test	*	(-4)
	The subjects wearing normal working clothes and wearing the particle filtering half mask shall walk at a regular rate of 6 km/h on a level course. The test shall be continuous, without removal of the particle		N/A
	filtering half mask, for a period of 10 min.	28	
8.4.3	Work simulation test		150
	The particle filtering half mask shall be tested under conditions which can be expected during		N/A





Page 10 of 17

	normal use. During this test the following activities shall be carried out in simulation of the practical use of the particle filtering half mask. The test shall be completed within a total working time of 20 min. The sequence of activities is at the discretion of the test house. The individual activities shall be arranged so that sufficient time is left for the comments prescribed.  a) walking on the level with headroom of (1,3 ± 0,2) m for 5 min; b) b) crawling on the level with headroom of (0,70 ± 0,05) m for 5 min; c) filling a small basket (see Figure 1, approximate volume = 8 I) with chippings or other suitable c) material from a hopper which stands 1,5 m high and has an opening at the bottom to allow the contents to be shovelled out and a further opening at the top where the basket full of chippings is returned. The subject shall stoop or kneel as he wishes and fill the basket with chippings. He shall then lift the	
0.5	basket and empty the contents back into the hopper. This shall be done 20 times in 10 min.	9 000
8.5	Leakage	
8.5.1	General test procedure	
8.5.1.1	Total inward leakage	
8.5.1.2	Test equipment	320
8.5.1.3	Test procedure	150
8.5.2	Method	157.5
8.5.2.1	Principle	
8.5.2.2	Test equipment (see Figure 3)	
8.5.2.3	Expression of results	=
8.6	Flammability	
	A total of four particle filtering half masks shall be tested: two in the state as received and two after temperature conditioning in accordance with 8.3.2. The single burner test is carried out according to the following procedure.  The facepiece is put on a metallic dummy head which is motorized such that it describes a horizontal circle with a linear speed, measured at the tip of the nose, of $(60 \pm 5)$ mm/s.  The head is arranged to pass over a propane burner the position of which can be adjusted. By means of a suitable gauge, the distance between the top of the burner, and the lowest part of the facepiece (when positioned directly over the	P



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GTS

Page 11 of 17

	burner) shall be set to $(20\pm2)$ mm. A burner described in ISO 6941 has been found suitable. With the head turned away from the area adjacent to the burner, the propane gas is turned on, the pressure adjusted to between 0,2 bar and 0,3 bar and the gas ignited. By means of a needle valve and fine adjustments to the supply pressure, the flame heigt shall be set to $(40\pm4)$ mm. This is measured with a suitable gauge. The temperature of the flame measured at a height of $(20\pm2)$ mm above the burner tip by means of a 1,5 mm diameter mineral insulated thermocouple probe, shall be $(800\pm50)^{\circ}$ C. Failure to meet the temperature requirement indicates that a fault such as a partially blocked burner exists. This shall be rectified before testing. The head is set in motion and the effect of passing the facepiece once through the flame shall be noted. The test shall be repeated to enable an assessment to be made of all materials on the exterior of the device. Any one component shall be passed through the flame once only.	
8.7	Carbon dioxide content of the inhalation air	 -
	A total of 3 particle filtering half masks shall be tested: all 3 as received.  The apparatus consists essentially of a breathing machine with solenoid valves controlled by the breathing machine, a connector, a CO 2 flowmeter and a CO 2 analyser.  The apparatus subjects the particle filtering half mask to a respiration cycle by the breathing machine.  For this test the particle filtering half mask shall be fitted securely in a leak-tight manner but without deformation to a Sheffield dummy head (see Figure 6).  Air shall be supplied to it from a breathing machine adjusted to 25 cycles/min and 2,0 l/stroke and the exhaled air shall have a carbon dioxide content of 5 % by volume.  A typical test arrangement is shown in Figure 7. If the design of the test equipment causes a CO 2 build-up a CO 2 absorber shall be used in the inhalation branch between solenoid valve and breathing machine.  The CO 2 is fed into the breathing machine via a control valve, a flowmeter, a compensating bag and two non-return valves.  Immediately before the solenoid valve a small quantity of exhaled air is preferably continuously	P





Page 12 of 17

	withdrawn through a sampling line and then fed into the exhaled air via a CO 2 analyser.  To measure the CO 2 content of the inhaled air, 5 % of the stroke volume of the inhalation phase of the breathing machine is drawn off at the marked place by an auxiliary lung and fed to a CO 2 analyser. The total dead space of the gas path (excluding the breathing machine) of the test installation should not exceed 2000 ml.  Measure the carbon dioxide content of the inhaled air and record continuously.  Test conditions are ambient atmospheric conditions.  The ambient carbon dioxide level is measured 1 m in front of and level with the tips of the nose of the dummy head. The ambient level is measured once a stabilized level for carbon dioxide in the inhalation air has been attained. Alternatively, the ambient level of carbon dioxide may be measured at the sampling tube with the carbon dioxide supply turned off. Results are deemed acceptable only if the measured value of the ambient level of carbon dioxide is less than 0,1 %.  The laboratory ambient carbon dioxide level shall be subtracted from the measured value.		
	The air flow from the front shall be 0,5 m/s. For test arrangement see Figure 8.		
	The test shall be performed until a constant carbon dioxide content in the inhalation air is achieved		
8.8	Strength of attachment of exhalation valve housing		( <del>23</del> )
	A total of three particle filtering half masks shall be tested: one as received, one temperature conditioned in accordance with 8.3.2 and one after the test described for mechanical strength in EN 143.  Mount the particle filtering half mask securely to a fixture as shown in Figure 9. Apply an axial tensile force of 10 N to the valve (housing) for 10 s, and note the results.		N/A
8.9	Breathing Resistance		( <del>-1</del> )
8.9.1	Test samples and fixture	*	1 <del>-1</del> 2
8.9.1.1	Valveless particle filtering half masks	*	Р
8.9.1.2	Valved particle filtering half masks		N/A
8.9.2	Exhalation resistance		(22)
	Seal the particle filtering half mask on the Sheffield dummy head. Measure the exhalation resistance at the opening for mouth of the dummy head using the adapter shown in Figure 6 and a breathing machine adjusted to 25 cycles/min and 2.0 l/stroke or a continous flow 160 l/min. Use a suitable pressure transducer.		Р





Page 13 of 17

	Measure the exhalation resistance with the dummy head successively placed in 5 defined positions: - facing directly ahead - facing vertically upwards - facing vertically downwards - lying on the left side - lying on the right side	
8.9.3	Inhalation resistance	120
	Test the inhalation resistance at 30 l/min and 95 l/min continuous flow	P
8.10	Clogging	
8.10.1	Principle	-
	The test aerosol shall be dolomite. A total of 3 particle filtering half masks shall be tested: 1 as received and 2 after temperature conditioning in accordance with 8.3.2.  The test consists of subjecting the particle filtering half mask to a sinusoidal breathing simulation, whilst the sample is surrounded by a known concentration of dolomite dust in air. Following the exposure, the breathing resistance and the filter penetration of the sample particle filtering half mask are measured.	P
8.10.2	Test equipment	=
	A scheme of a typical apparatus is given in Figure 10. The working area of the test chamber has a suggested square section of 650 mm $\times$ 650 mm. The breathing machine has a displacement of 2,0 l/stroke. The exhaled air shall pass a humidifier in the exhaled air circuit, such that the exhaled air temperature, measured at the position of the sample particle filtering half mask is $(37 \pm 2)$ ° C and 95 % R.H. minimum.	P
8.10.3	Test conditions	1-0
	Dust: DRB 4/15 dolomite The size distribution of dolomite dust is given in Table 3.	Р





Page 14 of 17

	100	Table 3 — Size dist	ribution of dalamit	e dust			
	Coulter counter		Sedimentation analysis				
	Size (equivalent sphencal	% Number particles	Bize (Stokes diameter)	% weight oversize			
	dameter)	overtize					
	μm	100	μm	00.5			
	0,7	100	1 2	99,5 97.5			
	2	30	3	95			
	3	17	5	85			
	5	7	8	70			
	=17		10	50			
	9	2	12	26			
			14	10			
	12	1	16	1			
	shall be verifitest chamber described as  Continuous m 3 /h, linear  Sinusoidal mask is delive to 15 cycles/n shall be satur  Concentration  Relative ht  Testing time concentration 3 or until:  1) for valved inhalation res a continuous for class FFP FFP2 or 7 mb exhalation res  1,8 mbar (cor flow of 160 l/r  2) for valveles peak inhalation resistance ha mbar for class	s flow through velocity 4 cm/ flow through a red by a breamin and 2,0 l/s rated in humidition of the dustre of the air: () furnidity of the air: (	if the geon different from the dust of the particle athing mace troke; the rity; st: (400 ± 23 ± 2) ° air: (45 ± roduct of more time is 83 sponding to the second athing the s	netry of the om the model thamber: 60 e filtering half hine adjusted exhaled air 100) mg/m  C; 15) %; leasured dust 33 mg • h/m ks the peak to ched 4 mbar til the peak a continuous leasks the meass FFP1 or 4			
8.10.4	Test procedur	re			30.	-	-
	Convey dust chamber whe of 60 m 3 /h.	from the distri ere it is dispers	sed into the	e air stream		Ş	P
-	Fit the sample	e particle filter	ing half ma	ask in a	1		





Page 15 of 17

	leaktight manner to a dummy head or a suitable filter holder located in the dust chamber. Connect the breathing machine and humidifier to the sample and operate for the specified testing time. The concentration of dust in the test chamber may be measured by drawing air at 2 l/min through a sampling probe equipped with a pre-weighed, high efficiency filter (open face, diameter 37 mm) located near the test sample, as shown in Figure 10.  Calculate the dust concentration from the weight of dust collected, the flow rate through the filter and the time of collection.  Other suitable means may be used.	
8.10.5	Assessment of clogging	
	Following the exposure, measure the breathing resistance of the particle filtering half mask using clean air. Then measure the filter penetration in accordance with 8.11.	P
8.11	Penetration of filter material	_
	The device shall be mounted in a leaktight manner on a suitable adaptor and subjected to the test(s), ensuring that components of the device that could affect filter penetration values such as valves and harness attachment points are exposed to the challenge aerosol.  Testing of penetration, exposure and storage shall be done in accordance with EN 13274-7.	P.
9	Marking	1 -
9.1	Packaging	-
	The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.	P
9.1.1	The name, trademark or other means of identification of the manufacturer or supplier.	P
9.1.2	Type-identifying marking.	P
9.1.3	Classification The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D.	P
9.1.4	The number and year of publication of this European Standard.	
9.1.5	At least the year of end of shelf life. The end of shelf life may be informed by a pictogram as shown in Figure 12a, where yyyy/mm indicates the year and month.	P





Page 16 of 17

	Tage to of 17	
9.1.6	The sentence 'see information supplied by the manufacturer', at least in the official language(s) of the country of destination, or by using the pictogram as shown in Figure 12b.	P
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.	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". ! This letter shall follow the classification marking preceded by a single space.	Р
9.2	Particle filtering half mask	
	Particle filtering half masks 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.	Р
9.2.2	Type-identifying marking.	P
9.2.3	The number and year of publication of this European Standard.	P
9.2.4	Classification The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable.	P
9.2.5	If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the classification marking preceded by a single space (see 9.2.4).	P
9.2.6	Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.	Р
10	Information to be supplied by the manufacturer	-
10.1	Information supplied by the manufacturer shall accompany every smallest commercial available package.	P
10.2	Information supplied by the manufacturer shall be at least in the official language(s) of the country of destination.	P
10.3	The information supplied by the manufacturer shall contain all information necessary for trained and qualified persons on   application/limitations;  the meaning of any colour coding;	Р



GTS

Page 17 of 17

### TPHN20031822818

	- checks prior to use;	
	- donning, fitting;	
	- use;	
	<ul> <li>maintenance (e.g. cleaning, disinfecting), if applicable;</li> </ul>	
	- storage;	
	- 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.	P
10.5	Warning shall be given against problems likely to be encountered, for example:	P
	<ul> <li>fit of particle filtering half mask (check prior to use);</li> </ul>	
	<ul> <li>it is unlikely that the requirements for leakage will be achieved if facial hair passes under the face seal;</li> </ul>	
	- air quality (contaminants, oxygen deficiency);	
	use of equipment in explosive atmosphere.	
10.6	The information shall provide recommendations as to when the particle filtering half mask shall be discarded.	P
10.7	For devices marked "NR", a warning shall be given that the particle filtering half mask shall not be used for more than one shift.	P
		P
	langth of face width of face depth of face width of mouth (biggornals: diameter)	
	Figure 2 Facial dimensions	

- End of Review Report -





Annex I:

Photo documentation

Page 1 of 2

TPHN20031822818

Type of equipment, model:

Self-priming filter anti-particulate respirator (professional protective

mask) KY-KN95 adult type, KY-KN95 child type

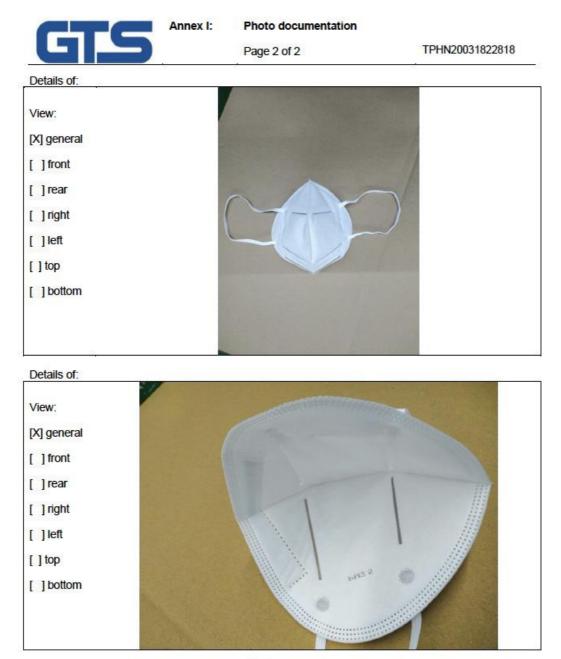
# Details of:

View: [X] general [ ] front []rear 专业防护口罩 [] right [ ] left [ ] top [ ] bottom

### Details of:

View: [X] general [ ] front [ ] rear [ ] right [ ] left []top [ ] bottom **MARKETON** 





- End of Annex I -