

Certificate

ICR Polska/CE/V/01RE465

Name and address Wangjiang Kayleinster Labor protection products Co., Ltd of certificate owner:

No.2 Yatan road, Wangjiang Economic Development Zone, anging

city.Anhui Province

Name and address Wangjiang Kayleinster Labor protection products Co.,Ltd of manufacturer:

No.2 Yatan road, Wangjiang Economic Development Zone, anging

city.Anhui Province

Product name: FFP3 Particulate respirator, Protective masks

Product types: 175*95MM

Product trademark: KANLINGHIN

This certificate confirms that the product meets the requirements of the following standard

The conformity was demonstrated based on following standard(s) listed by European Commission as harmonized with Regulation 2016/425

EN 149:2001+A1:2009

The certification has been carried out in accordance with individual rules and conditions agreed with the applicant. Evaluation has been carried out in accordance with:

Test report(s) No.: MNK20200312064R

Test conducted by: Shenzhen MONLKA Technology Co., Ltd

Certificate Issue date: 01.04.2020 **Expiration date:** 31.03.2025

NOTES:

This certificate refers to the above mentioned product and its conformity in regards of above mentioned standard(s) was proven on test sample

This certificate does not imply meeting all essential requirements, assessment of the series-production or any other restricted Notified Bodies conformity assessment procedure appropriate for the product

This certificate holder shall use this certificate in connection to declaration of conformity and technical data relevant for the product the certificate was issued

Certificate modifications:



ICR Polska Co. Ltd. Plac Przymierza 6 03-944 Warsaw, POLAND www.icrpolska.com e-mail: icrpolska@icrqa.com



Director: Rafał Kalinowski Warsaw, 01.04.2020





合格证

Certificate of Conformity

产品名称:一次性平面口罩(非医用)
Product Name:Disposable Protective Mask
(NON-MEDICAL)

规格/Specification:175*95(±3mm) 执行标准/Standard:GB/T32610-2016

生产批号/Lot No.:Fs-KL66-P22-D07 生产日期/Production:2020/06/20

检验员/Inspector:02

有效期:2年/Validity: 2Years

合格 (2) Pass

贮藏方法:储存温度-28℃~38℃,湿度80%,避光干燥. 室内环境

Storage method:Storage temperature: -28°C~38°C, humidity 80%, protected from light, dry indoor environment

源材料/Raw materials. 无纺布/non-wowen fabric71.5% 熔構布的elt-blownfabric28.5% 生产地址: 编音安庆布建江县雅滩路2号

Production address: NO Yean road, Wangjiang Economic Development Lone, anding city, Anhui

ProvincesH

生产企业:望江县凯伦斯特劳保用品有限公司 Production Enterprise:Wanglang Kayleinster Labor Protection Products Co., Ltd.



(Non-medical)

DISPOSABLE FACE MASK







Precautions for wearing and keeping:

1. This product cannot be used to prevent harmful dust and gas.

If the skin appears abnormal, itchy, inflamed or rashes, please stop
using it and seek medical advice immediately.

3. Please stop using the exhaled gas if there ts an odor.

4. This product is a disposable mask, generally can not be washed and

reused, should be stored in a place where the baby can not reach.

5. This product has not been treated with ethylene oxide and is not suitable for anoxic environment, underwater operation, escape, fire fighting, etc.Respiratory protective equipment for medical and special industries is not applicable to infant respiratory

Wearing a method:

Check the appearance of the mask before use. Do not use it if there is any damage, oil stains or odor. When wearing, fix the mask on your head, make sure it is close toyour face and protect your mouth and nose.

Storage life: 2 years production date: see certificate

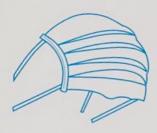
Storage method: store at room temperature, the relative temperature is not more than 80%, pay attention to fire, rain, acid, alkali, avoid direct sunlight.

Wangjiang Kayleinster Labor protection products Co.,Ltd

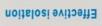
Add: No.2 Yatan road, Wangjiang Economic Development Zone, anging city, Anhui Province

Seller: Yiwu yansheng trading co.Ltd













DISPOSABLE FACE MASK

(Non-medical)





(Non-medical)

DISPOSABLE FACE MASK









AMLEINSTER

(Non-medical)

DISPOSABLE FACE MASK



Wangjiang Kayleinster Labor protection products Co.,Ltd Add: No.2 Yatan road, Wangjiang Economic Development Zone, anging city, Anhui Province

Scanned with CamScanner

TEST REPORT

EN 149:2001+A1:2009

Respiratory protective devices — Filtering half masks to protect against particles
—Requirements, testing, marking

Approved by (name + signature).....:

Date of test...... Feb. 25, 2020 — Mar. 13, 2020

Date of issue...... Mar. 13, 2020

Testing Laboratory...... Shenzhen monlka Technology Co.,Ltd

Applicant's name...... Wangjiang Kayleinster Labor protection products Co.,Ltd

Testing standard.....: EN 149:2001+A1:2009

Test item description...... FFP3 Particulate respirator, Protective masks

Trade Mark: KAYLENSTER

Manufacturer.....: Wangjiang Kayleinster Labor protection products Co.,Ltd

city, Anhui Province

Model/Type reference 175*95MM

Conclusions PASS

This report shows that the product technically complies with the Council PPE Directive 2016/425/EU requirements.

Possible test case verdicts:

- test object does meet the requirement...... P (Pass)

- test object does not meet the requirement..... F (Fail)

General remarks:

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

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

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	EN 149:2001+A1:2009	9	
Clause	Requirement – Test	Result - Remark	Verdic
5	Classification		P
	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	FFP3	P
6	Designation		P
	Particle filtering half masks meeting the requirements of this European Standard shall be designated		P
7	Requirements		P
7.1	In all tests all test samples shall meet the requirements.		P
7.2	Nominal values and tolerances		
	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 subject to a tolerance of \pm 5%.	the ambient temperature for testing shall be (16-32°C, and the temperature limits shall be subject to an accuracy of ±1 °C.	P
7.3	Visual inspection		P
	The visual inspection shall also include the marking and the information supplied by the manufacturer.		P
7.4	Packaging		P
	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.		P
7.5	Material		P
	Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be		P
	used. If the particle filtering half mask is designed to be		
7.6	re-usable, the materials used shall withstand the		
7.6	cleaning and disinfecting agents and procedures to be specified by the manufacturer		P
7.7	Practical performance		P

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Clause	Requirement – Test	Result - Remark	Verdic
	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.		P
7.8	Finish of parts		P
	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.		P
7.9	Leakage		P
7.9.1	Total inward leakage		P
	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.		P
	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		P
	25 % for FFP1		N
	11 % for FFP2		N
	5 % for FFP3	4.6%	N
	at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than		P
	22 % for FFP1		N
	8 % for FFP2		N
	2 % for FFP3	1.2%	N
7.9.2	Penetration of filter materia		P
	The penetration of the filter of the particle filtering half mask shall meet the requirements.	Sodium chloride: AR0.26%; TC0.22%; SW0.23%; MS0.21%	P
		Paraffin oil: AR—0.27%; TC—0.31%; SW—0.28%; MS—0.23%	P
7.10	Compatibility with skin		P

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Clause	Requirement – Test			Result - Remark	Verdict
	Materials that may con wearer's skin shall n cause irritation or any health.	ot be known t	o be likely to		Р
7.11	Flammability				P
	The material used shall the wearer and shall no nature.				
7.12	Carbon dioxide conter	t of the inhala	ation air		P
	The carbon dioxide co (dead space) shall not (by volume).			0.41%	P
7.13	Head harness				P
	The head harness shal particle filtering half removed easily.			The head harness is adjustable	P
7.14	Field of vision The field of vision is a in practical performan		etermined so		P
7.15	Exhalation valve(s)				N
	A particle filtering hal more exhalation valve correctly in all orienta	(s), which sha			N
	If an exhalation valve protected against or be mechanical damage ar include any other devi for the particle filterin 7.9.	e resistant to d ad may be shre ce that may be	irt and ouded or may e necessary		N
	Exhalation valve(s), if operate correctly after flow of 300 l/min over	a continuous	exhalation		N
	When the exhalation very the faceblank, it shall force of 10 N applied	alve housing withstand axia	is attached to		N
7.16	Breathing resistance				P
	The breathing resistan valveless particle filter meet the requirements	ring half mask	s and shall	Inhalation(30 l/min): 0.79	P
		2 — Breathing resistance num permitted resistance		L. L. L. L. (05 1/) 2.5	
	inhs 30 l/min	lation 95 l/min	exhalation 160 l/min	Inhalation(95 l/min): 2.6	P
	FFP1 0,6 FFP2 0,7 FFP3 1,0	2,1 2,4 3,0	3,0 3,0 3,0	Exhalation(160 l/min): 2.7	P
7.17	Clogging				P
7.17.1	General				P
	For single shift use de an optional test. For re Mandatory The specified breathin exceeded before the re • h/m³ is reached	-usable devic	es the test is		P

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	EN 149:2001+A1:200	9	
Clause	Requirement – Test	Result - Remark	Verdict
7.17.2	Breathing resistance		P
7.17.2.1	Valved particle filtering half masks		N
	After clogging the inhalation resistances shall not		N
	exceed		
	FFP1: 4 mbar		N
	FFP2: 5 mbar		N
	FFP3: 7 mbar		N
7.17.2.2	Valveless particle filtering half masks		P
	After clogging the inhalation and exhalation resistances shall not exceed		P
	- FFP1: 3 mbar		N
	- FFP2: 4 mbar		N
	- FFP3: 5 mbar	4.1mbar	P
7.17.3	Penetration of filter material		P
	All types (valved and valveless) of particle		
	filtering half masks claimed to meet the clogging		
	requirement shall also meet the requirements given in 7.9.2, for the Penetration test according		P
	to EN 13274-7, after the clogging treatment.		
7.18	Demountable parts		P
7.10	All demountable parts (if fitted) shall be readily		
	connected and secured, where possible by hand.		P
8	Testing		P
8.1	General		P
	If no special measuring devices and methods are		
	specified, commonly used devices and methods		P
	shall be used.		
8.2	Visual inspection		P
	The visual inspection is carried out where		
	appropriate by the test house prior to laboratory		P
	or practical performance tests.		
8.3	Conditioning		P
8.3.1	Simulated wearing treatment		P
	Conditioning by simulated wearing treatment shall be carried out by the following process.		P
8.3.2	Temperature conditioning		P
0.3.2	Expose the particle filtering half masks to the		
	following thermal cycle:		P
	a) for 24 h to a dry atmosphere of $(70 \pm 3)^{\circ}$		-
	C; BS EN 149:2001+A1:2009		P
	b) for 24 h to a temperature of (-30 \pm 3) ° C;		P
	and allow to return to room temperature for at		
	least 4 h between exposures and prior to		P
	subsequent testing.		
8.3.3	Mechanical strength		P
	Conditioning shall be done in accordance with		P
	EN 143.		ľ
	Flow conditioning		
	A total of 3 valved particle filtering half masks		
8.3.4	shall be tested, one as received and two		N
	temperature conditioned in accordance with	I	1
	8.3.2.		

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Clause	Requirement – Test	Result - Remark	Verdic
8.4.1	General		P
	A total of 2 particle filtering half masks shall be		
	tested: both as received.		
	All tests shall be carried out by two test subjects		
	at ambient temperature and the test temperature		_
	and humidity shall be recorded.		P
	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.		
	a) head harness comfort:		P
	b) security of fastenings;		P
	c) field of vision;		P
	d) any other comments reported by the wearer on		
	request.		P
8.4.2	Walking test		P
	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		P
	test shall be continuous, without removal of the		1
	particle filtering half mask, for a period of 10		
0.10	min.		
8.4.3	Work simulation test The particle filtering half mask shall be tested		P
	under conditions which can be expected during		
	normal use. During this test the following	The test shall be completed	
	activities shall be carried out in simulation of the	within a total working time of	P
	practical use of the particle filtering half mask.	20min.	
	The test shall be completed within a total	The second second	
	working time of 20 min.		
	a) walking on the level with headroom of (1.3 \pm		Р
	0.2) m for 5 min;		P
	b) crawling on the level with headroom of (0.70		Р
	± 0.05) m for 5min;		Г
	c) filling a small basket (see Figure 1,		
	approximate volume = 8 l) with chippings or		
	other suitable 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		P
	and a further opening at the top where the basket		
			l
			l
	full of chippings is returned		
	full of chippings is returned The subject shall stoop or kneel as		P
	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 basket and empty the contents back		P
	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 basket and empty the contents back into the hopper. This shall be done		P
	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 basket and empty the contents back into the hopper. This shall be done 20 times in 10 min.		
8.5 8.5.1	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 basket and empty the contents back into the hopper. This shall be done		P P

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	EN 149:2001+A1:200	9	
Clause	Requirement – Test	Result - Remark	Verdic
	A total of 10 test specimens shall be tested: 5 as received and 5 after temperature conditioning. For the test, persons shall be selected who are familiar with using such or similar equipment. A panel of ten clean-shaven persons shall be selected covering the spectrum of facial characteristics of typical users It is to be expected that exceptionally some persons cannot be satisfactorily fitted with a particle filtering half mask. Such exceptional subjects shall not be used for testing particle filtering half masks.	The total inward leakage shall be tested using sodium chloride aerosol.	P
8.5.1.2	Test equipment		P
	The test atmosphere shall preferably enter the top of the enclosure through a flow distributor, and be directed downwards over the head of the test subject at a minimum flow rate of 0,12 m/s. The concentration of the test agent inside the effective working volume shall be checked to be homogeneous. The flow rate should be measured close to thesubject's head	A level treadmill is required capable of working at 6 km/h.	P
8.5.1.3	Test procedure		P
	Ask the test subjects to read the manufacturer's fitting information and if more than one size of particle filtering half mask is manufactured, ask the test subject to select the size deemed by him to be the most appropriate. If necessary the test supervisor shall show the test subjects how to fit the particle filtering half mask correctly in accordance with the fitting information. The test sequence shall be as follows:		P
	a) Ensure the test atmosphere is OFF.		P
	b) Place the test subject in the enclosure. Connect up the facepiece sampling probe. Have the test subject walk at 6 km/h for 2 min. Measure the test agent concentration inside the particle filtering half mask to establish the background level.		P
	c) Obtain a stable reading.		P
	d) Turn the test atmosphere ON.		P
	e) The subject shall continue to walk for a further 2 min or until the test atmosphere has stabilized.		P

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	EN 149:2001+A1:200	9	
Clause	Requirement – Test	Result - Remark	Verdict
	f) Whilst still walking the subject shall perform the following exercises: 1) walking for 2 min without head movement or talking; 2) turning head from side to side (approx. 15 times), as if inspecting the walls of a tunnel for 2 min; 3) moving the head up and down (approx. 15 times), as if inspecting the roof and floor for 2 min; 4) reciting the alphabet or an agreed text out loud as if communicating with a colleague for 2 min; 5) walking for 2 min without head movement or talking.		P
	g) Record 1) enclosure concentration; 2) the leakage over each exercise period.		P
	h) Turn off the test atmosphere and when the test agent has cleared from the enclosure remove the subject.		P
8.5.2	Method		P
8.5.2.1	Principle		P
	The subject wearing the particle filtering half mask under test walks on a treadmill over which is an enclosure. Through this enclosure flows a constant concentration of NaCl aerosol. The air inside the particle filtering half mask is sampled and analysed during the inhalation phase of the respiratory cycle to determine the NaCl content. The sample is extracted by punching a hole in the particle filtering half mask and inserting a probe through which the sample is drawn. The pressure variation inside the particle filtering half mask is used to actuate a change-over valve so that inhaled air only is sampled. A second probe is inserted for this purpose		P
8.5.2.2	Test equipment		P
8.5.2.2.1	Aerosol generator		P
	The Nacl aerosol shall be generated from a 2 %		P
8.5.2.2.2	solution of reagent grade NaCl in distilled water. The type described should be used. This requires an air flow rate of 100 l/min at a pressure of 7 bar. The atomizer and its housing shall be fitted into a duct through which a constant flow of air is maintained. It may be necessary to heat or dehumidify the air in order to obtain complete drying of the aerosol particles. Test agent		P

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	EN 149:2001+A1:2009		
Clause	Requirement – Test	Result - Remark	Verdic
	The mean NaCl concentration within the		
	enclosure shall be (8 ± 4) mg/m3 and the		
	variation throughout the effective working		
	volume shall be not more than 10 %. The particle		P
	size distribution shall be 0,02 mm to 2mm		
	equivalent aerodynamic diameter with a mass		
	mediandiameter of 0,6 mm.		
3.5.2.2.3	Flame photometer		P
	A flame photometer shall be used to measure the		
	concentration of NaCl inside the particle filtering		P
	half mask. Essential performance characteristics		_
	for a suitable instrument are:		
	a) It should be a flame photometer specifically		P
	designed for the direct analysis of NaCl aerosol;		
	b) It should be capable of measuring		
	concentrations of NaCl aerosol between 15		P
	mg/m3 and 5 ng/m3;		
	c) The total aerosol sample required by the		P
	photometer should not be greater than 15 l/min;		_
	d) The response time of the photometer,		_
	excluding the sampling system, should not be		P
	greater than 500 ms;		_
	e) It is necessary to reduce the response to other		
	elements, particularly carbon, the concentration		
	of which will vary during the breathing cycle.		P
	This will be achieved by ensuring that the band pass width of the interference filter is no greater		P
	than 3 nm and that all necessary side-band filters		
	are included.		
3.5.2.2.4	Sample selector		N
).J.L.L.T	A system is required which will switch the		11
	sample to the photometer only during the		
	inhalation phase of the respiratory cycle. During		
	the exhalation phase clean air shall be fed to the		N
	photometer. The essential elements of such a		
	system are:		
	a) An electrically operated valve with a response		
	time of the order of 100 ms. The valve should		
	have the minimum possible dead space		N
	compatible with straight-through, unrestricted		
	flow when open;		
	b) A pressure sensor which is capable of		
	detecting a minimum pressure change of approx.		
	0,05 mbar and which can be connected to a probe		
	inserted in the cavity of the particle filtering half		
	mask. The sensor shall have an adjustable		N
	threshold and be capable of differential signalling		1
	when the threshold is crossed in either direction.		
	The sensor shall work reliably when subjected to		
	the accelerations produced by the head		
	movements of the subject;		-
	c) An interfacing system to actuate the valve in		N

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	EN 149:2001+A1:2009)	
Clause	Requirement – Test	Result - Remark	Verdic
	d) timing device to record the proportion of the		
	total respiratory cycle during which sampling		N
	took place.		
8.5.2.2.5	Sampling probe		P
	The probe shall be fitted securely in an airtight		
	manner to the particle filtering half mask as near		
	as possible to the centre line of the particle		
	filtering half mask. A multiple hole sampling probe is strongly recommended. Measures shall		
	be taken to prevent the influence of condensation		
	in the sampling probe on the measurement.		
8.5.2.2.6	Sample pump		P
0.3.2.2.0	If no pump is incorporated into the photometer an		1
	adjustable flow pump is used to withdraw an air		
	sample from the particle filtering half mask under		
	test. This pump is so adjusted as to withdraw a		P
	constant flow of 1 l/min from the sample probe.		1
	Dependent on the type of photometer it may be		
	necessary to dilute the sample with clean air.		
8.5.2.2.7	Sampling of enclosure concentration		P
	The enclosure aerosol concentration is monitored		
	during the tests using a separate sampling system,		
	to avoid contamination of the particle filtering		
	half mask sampling lines. It is preferable to use a		P
	separate flame photometer for this purpose.		
	However, time will then be required to allow the		
	photometer to return to a clean background.		_
8.5.2.2.8	Pressure detection probe		P
	A second probe is fitted near to the sample probe		P
8.5.2.3	and is connected to the pressure sensor. Expression of results		P
8.3.2.3	The leakage P shall be calculated from		P
	measurements made over the last 100 s of each of		
	the exercise periods to avoid carry over of results		P
	from one exercise to the other.		
8.6	Flammability		P
	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		P
	8.3.2.		l P
	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		P
	horizontal circle with a linear speed, measured at		
	the tip of the nose, of (60 ± 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		P
	the top of the burner, and the lowest part of the		
	facepiece (when positioned directly over the		
	burner) shall be set to (20 \pm 2) mm.		

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	EN 149:2001+A1:2009			
Clause	Requirement – Test	Result - Remark	Verdic	
	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 \pm 4) mm. This is measured with a suitable gauge. The temperature of the flame measured at a height of (20 \pm 2) mm above the burner tip by means of a 1,5 mm diameter mineral insulated thermocouple probe, shall be (800 \pm 50) °C.		P	
	Failure to meet the temperature requirement indicates that a fault such as a partially blocked burner exists. This shall be rectified before testing.		P	
	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		P	
	through the flame once only.			
8.7	Carbon dioxide content of the inhalation air A total of 3 particle filtering half		P	
	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 CO2 flowmeter and a CO2 analyser. The apparatus subjects the particlefiltering half mask to a respiration cycle by the breathing machine.		Р	
8.8	Strength of attachment of exhalation valve housing		P	
	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.		P	
8.9	Breathing Resistance		P	
8.9.1	Test samples and fixture		P	
8.9.1.1	Valveless particle filtering half masks A total of 9 valveless particle filtering half masks shall be tested:3 as received, 3 after temperature conditioning in accordance with 8.3.2 and 3 after the test for simulated wearing in accordance with 8.3.1		P P	
8.9.1.2	Valved particle filtering half masks		P	
8.9.2	Exhalation resistance		P	

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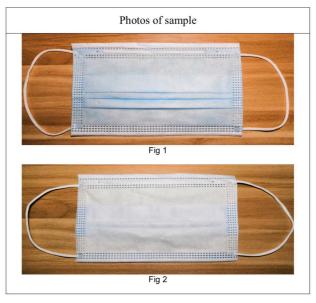
	EN 149:2001+A1:2009		
Clause	Requirement – Test	Result - Remark	Verdic
	Seal the particle filtering half mask on the Sheffield dummy head. Measure the exhalation resistance at the opening for mouth of the dummy head using the adapter and a breathing machine adjusted to 25 cycles/min and 2.0 l/stroke or a continous flow 160 l/min.		P
8.9.3	Inhalation resistance		P
	Test the inhalation resistance at 30l/min and 95 l/min continuous flow.		P
8.10	Clogging		P
8.10.1	Principle		P
	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		P
8.10.2	Test equipment		P
	A scheme of a typical apparatus is given. The working area of the test chamber has a suggested square section of 650 mm. The breathing machine has a displacement of 2,0l/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±2) °C and 95 % R.H. minimum		P
8.10.3	Test conditions		P
6.10.5	Dust: DRB 4/15 dolomite The size distribution of dolomite dust is given.		P
8.10.4	Test procedure		P
8.10.4	Convey dust from the distributor to the dust chamber where it is dispersed into the air stream of 60 m ³ /h.Fit the sample particle filtering half mask in a leaktight manner to a dummy head or a suitable filter holder located in the dust chamber.		P
8.10.5	Assessment of clogging		P
	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	Filter penetration		P
	The device shall be mounted in a leaktight manner on a suitable former and subjected to the filter penetration test, 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 shall be done in accordance with EN 143.		P
9	Marking		P
9.1	Packaging		P
	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

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	EN 149:2001+A1:200	9	
Clause	Requirement – Test	Result - Remark	Verdic
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: FFP1, FFP2, FFP3.	FFP3	P
9.1.4	The number and year of publication of this European Standard.		P
9.1.5	At least the year of end of shelf life. The end of shelf life may be informed by a pictogram, where yyyy/mm indicates the year and month.		P
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.		P
9.1.7	The manufacturer's recommended conditions of storage or equivalent pictogram.		P
9.1.8	The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D".		P
9.2	Particle filtering half mas		P
	Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:		P
9.2.1	The name, trademark or other means of identification of the manufacturer or supplier.		P
9.2.2	Type-identifying marking.		P
9.2.3	The number and year of publication of this European Standard.		P
9.2.4	The symbols FFP1, FFP2 or FFP3 according to class.	FFP3	P
9.2.5	If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the class designation		P
9.2.6	Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.		P
10	Information to be supplied by the manufacturer		P
10.1	nformation 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
	The information supplied by the manufacturer shall contain all information necessary for trained and qualified persons on		P
	application/limitations;		P
	the meaning of any colour coding;		P
10.3	checks prior to use;		P
	donning, fitting;		P
	use;		P
	maintenance (e.g. cleaning, disinfecting), if applicable;		P
	storage;		P

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EN 149:2001+A1:2009			
Clause	Requirement – Test	Result - Remark	Verdict
	the meaning of any symbols/pictograms used of the equipment.		P
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
	fit of particle filtering half mask (check prior to use);		P
	it is unlikely that the requirements for leakage will be achieved if facial hair passes under the face seal;		P
	air quality (contaminants, oxygen deficiency);		P
	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.		P



-----THE END OF REPORT-----