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检测
TESTING
CNAS L7901

检验检测报告

TEST REPORT



GTFWT20221064

产品名称

Product Name

AIRINUM 轻生活系列口罩 纤巧型

委托单位

Trust Unit

Airinum AB

生产单位

Manufacturer

广州市哈雷日用品有限公司

检验检测类别

Test Category

委托送样检验



江苏省特种安全防护产品质量监督检验中心

JIANGSU QUALITY SUPERVISION AND INSPECTION CENTER FOR SPECIAL SAFETY PROTECTION PRODUCTS

国家特种劳动防护用品质量检验检测中心(江苏)

NATIONAL QUALITY INSPECTION CENTER FOR SPECIAL LABOR PROTECTION ARTICLES (JIANGSU)



检 验 检 测 报 告

Test Report

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产品名称 Product Name	AIRINUM 轻生活系列口罩 纤巧型	规格型号 Specification Type	M
		商 标 Trademark	Airinum AB
委托单位 Trust Unit	Airinum AB	电 话 Tel	——
生产单位 Manufacturer	广州市哈雷日用品有限公司	样品等级 Sample Grade	KN90
样品数量 Sample Quantity	70 只	送样日期 Sample Receiving Date	2022-05-16
检验检测类别 Test Category	委托送样检验	批号/货号 Serial Number	——
样品状态 Samples Conditions	符合检测要求	检验检测日期 Test Date	2022-05-17 ~ 2022-05-27
检验检测及判定依据 Document and Decide Accordance	GB 2626-2019 《呼吸防护 自吸过滤式防颗粒物呼吸器》		
检验检测结论 Test Conclusion	检验检测结果见结果页  签发日期: 2022-05-27 SignatuimDate		
备 注 Remarks	本报告仅对来样出具的检测结果负责, 检测结果及符合性判定不考虑测量结果的不确定度。		

批 准:
Approver

陈敏

审 核:
Examiner

吴亮亮

编 制:
Compiler

王鹏

检 验 检 测 结 果 Testing Results

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序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Requirement	检验检测结果 Results	单项评价 Individual Judgment
1	基本要求 (结构)	—	1)应不易产生结构性破损,部件设计、组成和安装不对使用者构成任何危险; 2)头带的设计应为弹性材料或可调,便于佩戴和摘除,应能将面罩牢固地固定在脸上,且佩戴时不应出现明显的压迫或压痛现象,可更换式半面罩和全面罩的头带设计应为可更换; 3)同一大小号码和相同款式的面罩若有不同的佩戴方式,应作为不同的产品检测; 4)不应明显影响视野 5)在佩戴时,全面罩的镜片不应出现结雾等影响视觉的情况。 6)使用可更换过滤元件、吸气阀、呼气阀以及头带的呼吸器应采用方便更换的设计,并且能使佩戴者随时和方便地检查面罩与面部的气密性,做佩戴气密性检查; 7)呼吸导管不应限制头部活动或佩戴者的行动,不应影响面罩的密合性,不应出现限制、阻塞气流的情况; 8)应对呼气阀的正面设置保护,呼气阀保护装置可以是专设的一个部件,也可以借助面罩上其他的部件起到保护作用; 9)随弃式面罩的结构应能保证与面部的密合,且应在正常使用中不出现变形; 10)可更换式面罩的部件(除过滤元件)应可清洗;	1)不易产生结构性破损,部件设计、组成和安装未对使用者构成任何危险; 2)头带的设计为弹性材料、可调,便于佩戴和摘除,能将面罩牢固地固定在脸上,且佩戴时未出现明显的压迫和压痛现象; 3)未明显影响视野; 4)随弃式面罩的结构能保证与面部的密合,且在正常使用中不出现变形。	合格

检验检测结果 Testing Results

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序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Requirement	检验检测结果 Results				单项评价 Individual Judgment
2	外观检查	——	样品表面不应破损、变形和有明显的其它缺陷，部件材料和结构应能够耐受正常使用条件及可能遇到的温度、湿度和机械冲击。按照 6.2 方法经温度湿度预处理和机械强度预处理后，部件不应脱落、损坏和变形。	样品表面无破损、变形、未有明显的其它缺陷，部件材料和结构能够耐受正常使用条件及可能遇到的温度、湿度和机械冲击。经温度湿度预处理和机械强度预处理后，部件未出现脱落、损坏和变形。				合 格
3	呼吸阻力	Pa	随弃式面罩，无阀 KN90 级： 吸气阻力≤170 呼气阻力≤170 KN95 级： 吸气阻力≤210 呼气阻力≤210 KN100 吸气阻力≤250 呼气阻力≤250	试样编号		实测值		合 格
				吸气阻力	未预处理	1 [#]	127.6	
						2 [#]	125.4	
					温湿度处理	5 [#]	122.4	
						6 [#]	123.6	
				呼气阻力	未预处理	3 [#]	107.6	
						4 [#]	104.3	
					温湿度处理	7 [#]	101.4	
						8 [#]	100.5	
				4	头带	——	呼吸器的每条头带、带扣及其他调节部件在承受 10N 拉力且持续 10s 时，不应出现滑脱或断裂。	
5	死腔	——	呼吸器的死腔结果平均值不应大于 1%	0.4%				合 格
6	视野	——	下方视野≥35°	61°				合 格
			双目视野≥65%	74%				

检 验 检 测 结 果 Testing Results

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序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Requirement	检验检测结果 Results					单项评价 Individual Judgment
7	过滤效率/% (NaCl 颗粒物)	—	KN90: ≥90.0	试样编号		实测值			合 格
				未预 处理	9 [#]	99.4			
					10 [#]	99.3			
					11 [#]	99.5			
					12 [#]	99.4			
					13 [#]	99.5			
					14 [#]	99.5			
					15 [#]	99.3			
					16 [#]	99.2			
					17 [#]	99.2			
					18 [#]	99.3			
					19 [#]	99.4			
					20 [#]	99.2			
					21 [#]	99.3			
					22 [#]	99.2			
					23 [#]	99.4			
				温度 湿度 处理	24 [#]	99.0			
					25 [#]	99.0			
					26 [#]	98.9			
					27 [#]	98.8			
					28 [#]	99.0			
8	实用性能/分	—	按 6.16 方法检测，在模拟使用的条件下，对其他检测方法难以评价的性能，如 5.1b) 和 5.11 中规定的性能，由受试者提供主观评价。	实验者	E2 快速行走 试验	E3 屈伸行走 试验	E9 管道 试验	E12 装填 试验	合 格
				A	3	3	3	3	
				B	3	3	3	3	
9	可燃性	—	暴露于火焰的各部件在从火焰移开后，继续燃烧时间不应超过 5s。	未预处理： 1 [#] 、2 [#] 试样暴露于火焰的各部件在从火焰移开后，未燃烧。 预处理后： 3 [#] 、4 [#] 试样暴露于火焰的各部件在从火焰移开后，未燃烧。					合 格

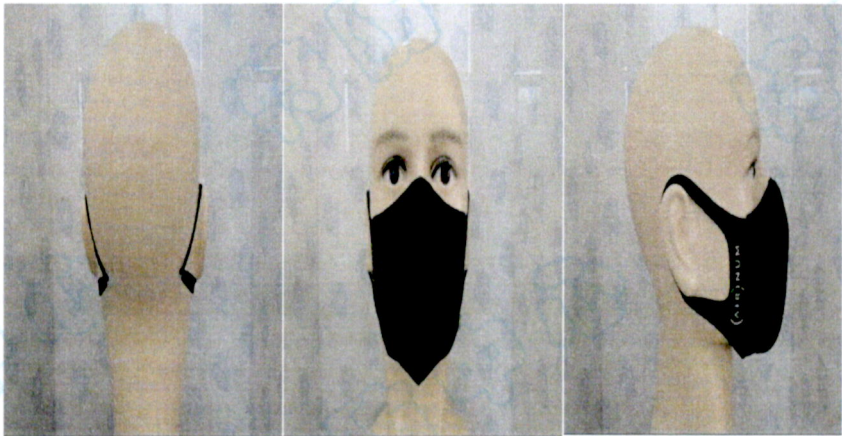
检 验 检 测 结 果 Testing Results

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序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Requirement	检验检测结果 Results							单项评价 Individual Judgment	
10	泄漏性/%	——	以每个动作的 TIL 为评价基础时（即 10 人×5 个动作），50 个动作中至少有 46 个动作的 TIL KN90 <13	试样号		TIL					总体 TIL	合 格
						头部静止	左右转动	抬头低头	大声阅读	头部静止		
				未 预 处 理	31 [#]	6.1	7.0	7.2	6.6	6.0	6.6	
					32 [#]	4.6	5.3	6.2	5.6	4.1	5.2	
					33 [#]	4.6	5.0	5.6	5.5	4.0	4.9	
					34 [#]	7.4	13.8	13.9	13.6	7.0	10.8	
					35 [#]	4.3	5.1	5.3	4.9	3.6	4.6	
				预 处 理	36 [#]	6.8	7.5	8.2	8.1	5.9	7.3	
					37 [#]	5.7	5.9	6.0	5.5	5.3	5.7	
					38 [#]	4.6	5.3	5.6	5.3	4.0	4.9	
					39 [#]	4.6	4.8	5.2	4.3	3.9	4.6	
					40 [#]	3.9	4.4	4.9	4.3	3.7	4.2	
				50 个动作中，有 47 个动作的 TIL 小于 13% 10 个试验者中，有 9 个人的 TIL 小于 10%								
备注	实用性能主观评价采取 5 分制打分方法；5 分表示对某评价项目有最佳的感受，3 分表示适中的感受，1 分表示难以接受的感受。											

样 品 图 片



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地址：江苏省泰州市高港区临港经济园临港大道 166 号

Add: Lingang Road 166, Lingang Economic Park , Gaogang, Taizhou.Jiangsu

电话 (Tel): 0523-86989959

0523-86989939

邮编 (Post): 225300

网址 (Web): www.jstfzx.com

邮箱 (E-mail): 1735889887@qq.com

监督电话 (Complain Tel): 0523-86989901



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特防检测



中心官方微信公众号



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CNAS L7901

检验检测报告

TEST REPORT



GTFWT20221064

Product Name Air Mask Lite - Filter Mini

Trust Unit Airinum AB

Manufacturer Guangzhou Harley Commodity Company Limited

Test Category Entrusted Test



江苏省特种安全防护产品质量监督检验中心

JIANGSU QUALITY SUPERVISION AND INSPECTION CENTER FOR SPECIAL SAFETY PROTECTION PRODUCTS

国家特种劳动防护用品质量检验检测中心(江苏)

NATIONAL QUALITY INSPECTION CENTER FOR SPECIAL LABOR PROTECTION ARTICLES (JIANGSU)



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Product Name	Air Mask Lite - Filter Mini	Specification Type	M
		Trademark	Airinum AB
Trust Unit	Airinum AB	Tel	---
Manufacturer	Guangzhou Harley Commodity Company Limited	Sample Grade	KN90
Sample Quantity	70 pcs	Sample Receiving Date	2022-05-16
Test Category	Entrusted Test	Serial Number	---
Samples Conditions	Meet the testing requirements	Test Date	2022-05-17 ~ 2022-05-27
Document and Decide Accordance	GB 2626-2019 <i>Respirator Protection products Self-breath Particles Filtration Respirator</i>		
Test Conclusion	See the results page for the test results.  SignatuimDate: 2022-05-27		
Remarks	This report is only responsible for the test results issued by the samples, The uncertainty of the measurement results is not considered in the detection results and compliance judgment.		

Approver

陈敏

Examiner

吴亮亮

Compiler

王鹏



Testing Results

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Serial	Test Items	Unit	Requirement	Results	Individual Judgment
1	The basic requirements (structure)	—	1)Structural damage shall not occur easily, and the design, composition and installation of components shall not pose any danger to users; 2)The headband shall be elastic or adjustable, easy to wear and remove, and the face mask shall be firmly fixed on the face, and no obvious compression or tenderness shall appear during wearing. The headband of replaceable facepiece and full facepiece shall be replaceable; 3)If masks of the same size and style are worn in different ways, they should be tested for different products; 4)The visual field should not be significantly affected 5)During wearing, the lens of the full facepiece should not be fogged or otherwise affect the vision. 6)The respirator with replaceable filter elements, inhalation valve, exhalation valve and headband shall be designed to be easily replaced, and the wearer can check the air tightness of the mask and face at any time and conveniently, and check the air tightness of wearing; 7) The breathing hose shall not restrict the head movement or the movement of the wearer, shall not affect the tightness of the mask, and shall not restrict or block the airflow; 8) Protection shall be provided on the front of the exhalation valve. The exhalation valve protection device may be a specially designed part or play a protective role with the help of other parts on the mask: 9) The structure of the disposable facepiece should be able to ensure the close fit with the face, and should not be deformed in normal use; 10) Parts of replaceable facepiece (filter elements) should be cleanable;	1)It is not easy to cause structural damage, and the design, composition and installation of components do not pose any danger to users 2)The headband is designed as elastic material, adjustable, easy to wear and remove, and can firmly fix the mask on the face without obvious compression or tenderness during wearing: 3)The field of vision is not significantly affected; 4)The structure of the disposable facepiece can ensure the close contact with the face, and it will not be deformed in normal use.	Qualified

Testing Results

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Serial

Test Items

Unit

Requirement

Results

Individual Judgment

2

Appearance inspection

The surface of the sample shall be free from damage, deformation and other obvious defects. The material and structure of the components shall be able to withstand normal service conditions and possible temperature, humidity and mechanical impact. After temperature and humidity pretreatment and mechanical strength pretreatment according to the method of 6.2, the parts should not fall off, be damaged or be deformed.

The surface of the sample is free from damage, deformation and other obvious defects. The material and structure of the components can withstand normal service conditions and possible temperature, humidity and mechanical impact. After temperature and humidity pretreatment and mechanical strength pretreatment, the parts did not fall off, damage or deform.

Qualified

3

Breath Resistance

Pa

disposable facepiece
KN90:
inhalation resistance : ≤170
exhalation resistance: ≤170

Sample No		MV	
Total inspiratory resistance	Unpretreated	1#	127.6
		2#	125.4
	Pre-treated	5#	122.4
		6#	123.6
Total exhalation resistance	Unpretreated	3#	107.6
		4#	104.3
	Pre-treated	7#	101.4
		8#	100.5

Qualified

4

Headband

Each headband, buckle and other adjusting parts of the mask should not slip or break when subjected to a 10N tension for 10s.

Unpretreated
1# Each headband, buckle and other adjusting parts of the mask did not slip or break after being subjected to 10N of tension for 10s.
After pretreatment:
5# Each headband, buckle and other adjusting parts of the mask did not slip or break after being subjected to 10N tension for 10s.

Qualified

5

Carbon dioxide content of the inhalation air

CO2 volume fraction should be no greater than 1%.

0.4%

Qualified

6

Field of vision

lower field of vision ≥35°

61°

binocular field of vision ≥65%

74%

Qualified

Testing Results

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Serial	Test Items	Unit	Requirement	Results					Individual Judgment
7	Filter efficiency /% (NaCl particulate matter)	—	KN90: ≥90.0	Sample No		MV			Qualified
				Unpretreated	9#	99.4			
					10#	99.3			
					11#	99.5			
					12#	99.4			
					13#	99.5			
					14#	99.5			
					15#	99.3			
					16#	99.2			
					17#	99.2			
					18#	99.3			
					19#	99.4			
					20#	99.2			
					21#	99.3			
					22#	99.2			
					23#	99.4			
				Temperature and humidity treatment	24#	99.0			
					25#	99.0			
					26#	98.9			
					27#	98.8			
					28#	99.0			
8	Practical performance / score	—	According to the method of 6.16, under the condition of simulated use, the subjects provide subjective evaluation for the performance that is difficult to evaluate by other detection methods, such as those specified in 5.1b) and 5.11	Experiment	E2	E3	E9	E12	Qualified
				A	3	3	3	3	
				B	3	3	3	3	
9	Flammability	—	The parts exposed to the flame should not burn after being removed from the flame; if they do, the renewal time should not exceed 5s.	Unpretreated 1#, 2#The parts of the specimen exposed to the flame did not burn after being removed from the flame. After pretreatment: 3#, 4#The parts of the specimen exposed to the flame did not burn after being removed from the flame.					Qualified

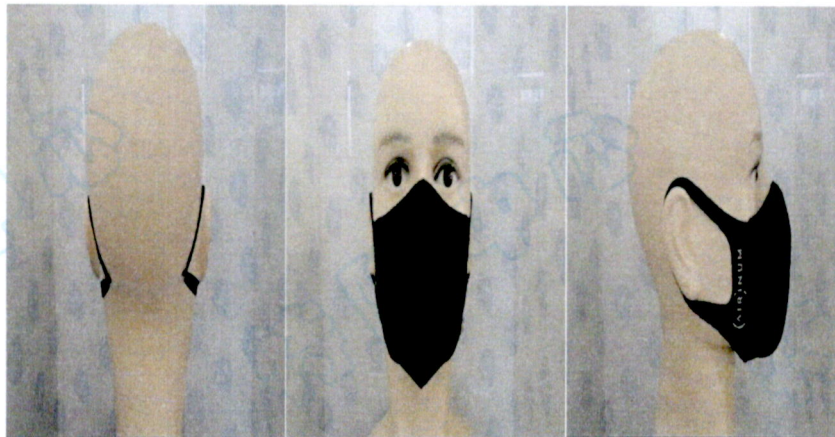
Testing Results

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Serial	Test Items	Unit	Requirement	Results							Individual Judgment	
10	Leakage/%	——	Based on Til of each action (i. e. 10 persons and 5 actions) , TIL of at least 46 actions in 50 actions KN90 <13 Total Inward Leakage for at least 8 out of 10 subjects when evaluated on a total person basis KN90 <10	No.		TIL						
						stati c	Head (side/ side)	Head (up /dow n)	Talk	static		Mean
				Un p r e t r e a t e d	31#	6.1	7.0	7.2	6.6	6.0	6.6	Qualified
					32#	4.6	5.3	6.2	5.6	4.1	5.2	
					33#	4.6	5.0	5.6	5.5	4.0	4.9	
					34#	7.4	13.8	13.9	13.6	7.0	10.8	
					35#	4.3	5.1	5.3	4.9	3.6	4.6	
				Af t e r p r e t r e a t m e n t	36#	6.8	7.5	8.2	8.1	5.9	7.3	
					37#	5.7	5.9	6.0	5.5	5.3	5.7	
					38#	4.6	5.3	5.6	5.3	4.0	4.9	
					39#	4.6	4.8	5.2	4.3	3.9	4.6	
					40#	3.9	4.4	4.9	4.3	3.7	4.2	
				47 out of the 50 individual exercise results ≤ 13 9 individual wearer arithmetic means≤ 10								
				Remarks	The subjective evaluation of practical performance adopts 5-point scoring method; 5 points indicate that they have the best feeling for an evaluation project, 3 points indicate moderate feeling, and 1 point indicates unacceptable feeling E2: Rapid Walking Test E3: Flexion and extension walking test E9: Pipeline experiment E12: Filling Test							

Test sample picture



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地址：江苏省泰州市高港区临港经济园临港大道 166 号

Add: Lingang Road 166, Lingang Economic Park , Gaogang, Taizhou.Jiangsu

电话 (Tel): 0523-86989959

0523-86989939

邮编 (Post): 225300

网址 (Web): www.jstfzx.com

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TESTING
CNAS L7901

检验检测报告

TEST REPORT



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产品名称

Product Name

AIRINUM 都市系列口罩 纤巧型

委托单位

Trust Unit

Airinum AB

生产单位

Manufacturer

广州市哈雷日用品有限公司

检验检测类别

Test Category

委托送样检验



江苏省特种安全防护产品质量监督检验中心

JIANGSU QUALITY SUPERVISION AND INSPECTION CENTER FOR SPECIAL SAFETY PROTECTION PRODUCTS

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Test Report

GTFWT20221065

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产品名称 Product Name	AIRINUM 都市系列口罩 纤巧型	规格型号 Specification Type	M
		商 标 Trademark	Airinum AB
委托单位 Trust Unit	Airinum AB	电 话 Tel	——
生产单位 Manufacturer	广州市哈雷日用品有限公司	样品等级 Sample Grade	KN90
样品数量 Sample Quantity	70 只	送样日期 Sample Receiving Date	2022-05-16
检验检测类别 Test Category	委托送样检验	批号/货号 Serial Number	——
样品状态 Samples Conditions	符合检测要求	检验检测日期 Test Date	2022-05-17 ~ 2022-05-27
检验检测及判定依据 Document and Decide Accordance	GB 2626-2019 《呼吸防护 自吸过滤式防颗粒物呼吸器》		
检验检测结论 Test Conclusion	检验检测结果见结果页  签发日期: 2022-05-30 SignatuimDate		
备 注 Remarks	本报告仅对来样出具的检测结果负责, 检测结果及符合性判定不考虑测量结果的不确定度。		

批 准:
Approver

陈敏

审 核:
Examiner

吴亮亮

编 制:
Compiler

王鹏

检 验 检 测 结 果 Testing Results

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序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Requirement	检验检测结果 Results	单项评价 Individual Judgment
1	基本要求 (结构)	—	1)应不易产生结构性破损,部件设计、组成和安装不对使用者构成任何危险; 2)头带的设计应为弹性材料或可调,便于佩戴和摘除,应能将面罩牢固地固定在脸上,且佩戴时不应出现明显的压迫或压痛现象,可更换式半面罩和全面罩的头带设计应为可更换; 3)同一大小号码和相同款式的面罩若有不同的佩戴方式,应作为不同的产品检测; 4)不应明显影响视野 5)在佩戴时,全面罩的镜片不应出现结雾等影响视觉的情况。 6)使用可更换过滤元件、吸气阀、呼气阀以及头带的呼吸器应采用方便更换的设计,并且能使佩戴者随时和方便地检查面罩与面部的气密性,做佩戴气密性检查; 7)呼吸导管不应限制头部活动或佩戴者的行动,不应影响面罩的密合性,不应出现限制、阻塞气流的情况; 8)应对呼气阀的正面设置保护,呼气阀保护装置可以是专设的一个部件,也可以借助面罩上其他的部件起到保护作用; 9)随弃式面罩的结构应能保证与面部的密合,且应在正常使用中不出现变形; 10)可更换式面罩的部件(除过滤元件)应可清洗;	1)不易产生结构性破损,部件设计、组成和安装未对使用者构成任何危险; 2)头带的设计为弹性材料、可调,便于佩戴和摘除,能将面罩牢固地固定在脸上,且佩戴时未出现明显的压迫和压痛现象; 3)未明显影响视野; 4)随弃式面罩的结构能保证与面部的密合,且在正常使用中不出现变形。	合格

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序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Requirement	检验检测结果 Results				单项评价 Individual Judgment
2	外观检查	——	样品表面不应破损、变形和有明显的其它缺陷，部件材料和结构应能够耐受正常使用条件及可能遇到的温度、湿度和机械冲击。按照 6.2 方法经温度湿度预处理和机械强度预处理后，部件不应脱落、损坏和变形。	样品表面无破损、变形、未有明显的其它缺陷，部件材料和结构能够耐受正常使用条件及可能遇到的温度、湿度和机械冲击。经温度湿度预处理和机械强度预处理后，部件未出现脱落、损坏和变形。				合 格
3	呼吸阻力	Pa	随弃式面罩，无阀 KN90 级： 吸气阻力≤170 呼气阻力≤170	试样编号			实测值	合 格
				吸气阻力	未预处理	1 [#]	110.4	
						2 [#]	114.3	
					温湿度处理	5 [#]	109.6	
						6 [#]	107.4	
				呼气阻力	未预处理	3 [#]	96.4	
						4 [#]	92.4	
					温湿度处理	7 [#]	90.6	
						8 [#]	91.3	
				4	头带	——	呼吸器的每条头带、带扣及其他调节部件在承受 10N 拉力且持续 10s 时，不应出现滑脱或断裂。	
5	死腔	——	呼吸器的死腔结果平均值不应大于 1%	0.3%				合 格
6	视野	——	下方视野≥35°	61°				合 格
			双目视野≥65%	73%				

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序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Requirement	检验检测结果 Results					单项评价 Individual Judgment
7	过滤效率/% (NaCl 颗粒物)	—	KN90: ≥90.0	试样编号		实测值			合 格
				未预 处理	9 [#]	99.3			
					10 [#]	99.2			
					11 [#]	99.2			
					12 [#]	99.3			
					13 [#]	99.1			
					14 [#]	99.2			
					15 [#]	99.2			
					16 [#]	99.3			
					17 [#]	99.2			
					18 [#]	99.3			
					19 [#]	99.2			
					20 [#]	99.2			
					21 [#]	99.3			
					22 [#]	99.3			
					23 [#]	99.4			
				温度 湿度 处理	24 [#]	99.0			
					25 [#]	98.9			
					26 [#]	98.8			
					27 [#]	99.0			
					28 [#]	98.9			
8	实用性能/分	—	按 6.16 方法检测，在模拟使用的条件下，对其他检测方法难以评价的性能，如 5.1b) 和 5.11 中规定的性能，由受试者提供主观评价。	实验者	E2 快速行走 试验	E3 屈伸行走 试验	E9 管道试验	E12 装填试验	合 格
				A	3	3	3	3	
				B	3	3	3	3	
9	可燃性	—	暴露于火焰的各部件在从火焰移开后，继续燃烧时间不应超过 5s。	未预处理： 1 [#] 、2 [#] 试样暴露于火焰的各部件在从火焰移开后，未燃烧。 预处理后： 3 [#] 、4 [#] 试样暴露于火焰的各部件在从火焰移开后，未燃烧。					合 格

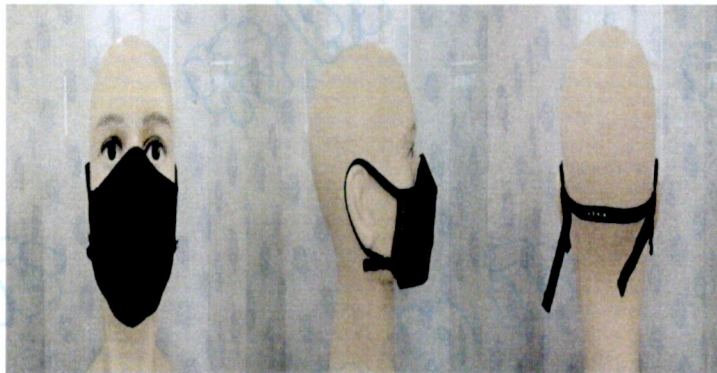
检 验 检 测 结 果 Testing Results

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序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Requirement	检验检测结果 Results							单项评价 Individual Judgment	
10	泄漏性/%	——	以每个动作的 TIL 为评价基础时（即 10 人×5 个动作），50 个动作中至少有 46 个动作的 TIL KN90 <13	试样号		TIL					总体 TIL	合 格
						头 部 静 止	左 右 转 动	抬 头 低 头	大 声 阅 读	头 部 静 止		
				未 预 处 理	31 [#]	3.9	4.4	5.2	5.1	3.4	4.4	
					32 [#]	3.7	4.1	4.1	4.1	3.6	3.9	
					33 [#]	5.9	6.2	6.7	6.0	5.4	6.0	
					34 [#]	8.0	13.6	13.9	13.6	7.3	10.9	
					35 [#]	4.3	4.6	4.9	4.8	4.1	4.5	
				预 处 理	36 [#]	4.0	4.6	5.6	5.0	3.2	4.5	
					37 [#]	4.8	5.7	5.7	4.9	4.6	5.1	
					38 [#]	4.7	5.2	5.7	4.8	4.5	5.0	
					39 [#]	4.1	4.3	5.2	5.1	3.9	4.5	
					40 [#]	5.3	5.7	5.8	5.4	5.0	5.5	
				50 个动作中，有 47 个动作的 TIL 小于 13% 10 个试验者中，有 9 个人的 TIL 小于 10%								
备注	实用性能主观评价采取 5 分制打分方法；5 分表示对某评价项目有最佳的感受，3 分表示适中的感受，1 分表示难以接受的感受。											

样 品 图 片



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地址：江苏省泰州市高港区临港经济园临港大道 166 号

Add: Lingang Road 166, Lingang Economic Park , Gaogang, Taizhou.Jiangsu

电话 (Tel): 0523-86989959

0523-86989939

邮编 (Post): 225300

网址 (Web): www.jstfzx.com

邮箱 (E-mail): 1735889887@qq.com

监督电话 (Complain Tel): 0523-86989901



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检验检测报告

TEST REPORT



GTFWT20221065

Product Name Air Mask Urban - Filter Mini

Trust Unit Airinum AB

Manufacturer Guangzhou Harley Commodity Company Limited

Test Category Entrusted Test



江苏省特种安全防护产品质量监督检验中心

JIANGSU QUALITY SUPERVISION AND INSPECTION CENTER FOR SPECIAL SAFETY PROTECTION PRODUCTS

国家特种劳动防护用品质量检验检测中心(江苏)

NATIONAL QUALITY INSPECTION CENTER FOR SPECIAL LABOR PROTECTION ARTICLES (JIANGSU)

Test Report

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Product Name	Air Mask Urban - Filter Mini	Specification Type	M
		Trademark	Airinum AB
Trust Unit	Airinum AB	Tel	---
Manufacturer	Guangzhou Harley Commodity Company Limited	Sample Grade	KN90
Sample Quantity	70 pcs	Sample Receiving Date	2022-05-16
Test Category	Entrusted Test	Serial Number	---
Samples Conditions	Meet the testing requirements	Test Date	2022-05-17 ~ 2022-05-27
Document and Decide Accordance	GB 2626-2019 <i>respirator protection products Self-breath Particles Filtration Respirator</i>		
Test Conclusion	See the results page for the test results. Signature: _____ Date: 2022-05-30		
Remarks	This report is only responsible for the test results issued by the samples, The uncertainty of the measurement results is not considered in the detection results and compliance judgment.		

Approver

陈敏

Examiner

吴亮亮

Compiler

王鹏

Testing Results

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Serial	Test Items	Unit	Requirement	Results	Individual Judgment
1	The basic requirements (structure)	---	1)Structural damage shall not occur easily, and the design, composition and installation of components shall not pose any danger to users; 2)The headband shall be elastic or adjustable, easy to wear and remove, and the face mask shall be firmly fixed on the face, and no obvious compression or tenderness shall appear during wearing. The headband of replaceable facepiece and full facepiece shall be replaceable; 3)If masks of the same size and style are worn in different ways, they should be tested for different products; 4)The visual field should not be significantly affected 5)During wearing, the lens of the full facepiece should not be fogged or otherwise affect the vision. 6)The respirator with replaceable filter elements, inhalation valve, exhalation valve and headband shall be designed to be easily replaced, and the wearer can check the air tightness of the mask and face at any time and conveniently, and check the air tightness of wearing; 7) The breathing hose shall not restrict the head movement or the movement of the wearer, shall not affect the tightness of the mask, and shall not restrict or block the airflow; 8) Protection shall be provided on the front of the exhalation valve. The exhalation valveprotection device may be a specially designed part or play a protective role with the help of other parts on the mask: 9) The structure of the disposable facepiece should be able to ensure the close fit with the face, and should not be deformed in normal use; 10) Parts of replaceable facepiece (filter elements) should be cleanable;	1)It is not easy to cause structural damage, and the design, composition and installation of components do not pose any danger to users 2)The headband is designed as elastic material, adjustable, easy to wear and remove, and can firmly fix the mask on the face without obvious compression or tenderness during wearing: 3)The field of vision is not significantly affected; 4)The structure of the disposable facepiece can ensure the close contact with the face, and it will not be deformed in normal use;	Qualified

Testing Results

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Serial	Test Items	Unit	Requirement	Results	Individual Judgment			
2	Appearance inspection	——	The surface of the sample shall be free from damage, deformation and other obvious defects. The material and structure of the components shall be able to withstand normal service conditions and possible temperature, humidity and mechanical impact. After temperature and humidity pretreatment and mechanical strength pretreatment according to the method of 6.2, the parts should not fall off, be damaged or be deformed.	The surface of the sample is free from damage, deformation and other obvious defects. The material and structure of the components can withstand normal service conditions and possible temperature, humidity and mechanical impact. After temperature and humidity pretreatment and mechanical strength pretreatment, the parts did not fall off, damage or deform.	Qualified			
3	Breath Resistance	Pa	disposable facepiece KN90: inhalation resistance : ≤ 170 exhalation resistance: ≤ 170	Sample No		MV	Qualified	
				Total inspi-ratory resis-tance	Unpr etr-ea ted	1#		110.4
						2#		114.3
					pretr-eated	5#		109.6
						6#		107.4
				Total exhal-ation resis-tance	Unpr etr-ea ted	3#		96.4
						4#		92.4
					pretr-eated	7#		90.6
8#	91.3							
4	Headband	——	Each headband, buckle and other adjusting parts of the mask should not slip or break when subjected to a 10N tension for 10s.	Unpretreated 1# Each headband, buckle and other adjusting parts of the mask did not slip or break after being subjected to 10N of tension for 10s. After pretreatment: 5# Each headband, buckle and other adjusting parts of the mask did not slip or break after being subjected to 10N tension for 10s.	Qualified			
5	Carbon dioxide content of the inhalation air	——	CO2 volume fraction should be no greater than 1%.	0.3%	Qualified			
6	Field of vision	——	lower field of vision $\geq 35^{\circ}$	61°	Qualified			
			binocular field of vision $\geq 65\%$	73%				

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Serial	Test Items	Unit	Requirement	Results					Individual Judgment
7	Filter efficiency /% (NaCl particulate matter)	——	KN90: ≥90.0	Sample No		MV			Qualified
				Unpretreated	9#	99.3			
					10#	99.2			
					11#	99.2			
					12#	99.3			
					13#	99.1			
					14#	99.2			
					15#	99.2			
					16#	99.3			
					17#	99.2			
					18#	99.3			
					19#	99.2			
					20#	99.2			
					21#	99.3			
					22#	99.3			
					23#	99.4			
				Temperature and humidity treatment	24#	99.0			
					25#	98.9			
					26#	98.8			
					27#	99.0			
					28#	98.9			
8	Practical performance / score	——	According to the method of 6.16, under the condition of simulated use, the subjects provide subjective evaluation for the performance that is difficult to evaluate by other detection methods, such as those specified in 5.1b) and 5.11	Experiment enter	E2	E3	E9	E12	Qualified
				A	3	3	3	3	
				B	3	3	3	3	
9	Flammability	——	The parts exposed to the flame should not burn after being removed from the flame; if they do, the renewal time should not exceed 5s.	Unpretreated 1#, 2#The parts of the specimen exposed to the flame did not burn after being removed from the flame. After pretreatment: 3#, 4#The parts of the specimen exposed to the flame did not burn after being removed from the flame.					Qualified

Testing Results

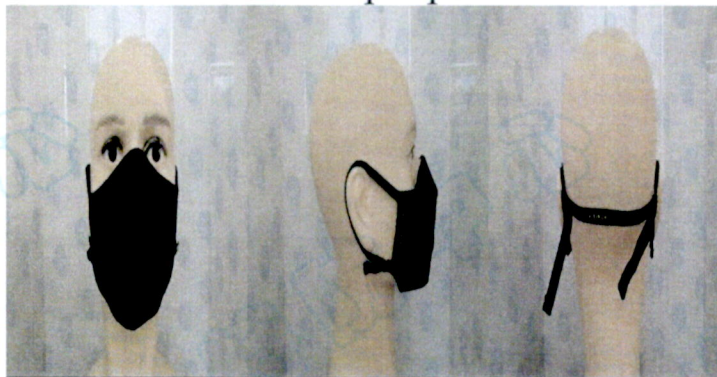
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Serial	Test Items	Unit	Requirement	Results							Individual Judgment		
10	Leakage/%	——	Based on Til of each action (i. e. 10 persons and 5 actions) , TIL of at least 46 actions in 50 actions KN90 < 13 Total Inward Leakage for at least 8 out of 10 subjects when evaluated on a total person basis KN95 < 10	No.		TIL						Qualified	
						stati c	Head (side/ side)	Head (up /dow n)	Talk	static			Mean
				Un p r e t r e a t e d	31#	3.9	4.4	5.2	5.1	3.4	4.4		47 out of the 50 individual exercise results ≤ 13 9 individual wearer arithmetic means≤ 10
					32#	3.7	4.1	4.1	4.1	3.6	3.9		
					33#	5.9	6.2	6.7	6.0	5.4	6.0		
					34#	8.0	13.6	13.9	13.6	7.3	10.9		
				Af ter pr etr eat ment	35#	4.3	4.6	4.9	4.8	4.1	4.5		
					36#	4.0	4.6	5.6	5.0	3.2	4.5		
					37#	4.8	5.7	5.7	4.9	4.6	5.1		
					38#	4.7	5.2	5.7	4.8	4.5	5.0		
					39#	4.1	4.3	5.2	5.1	3.9	4.5		
					40#	5.3	5.7	5.8	5.4	5.0	5.5		

Remarks	The subjective evaluation of practical performance adopts 5-point scoring method; 5 points indicate that they have the best feeling for an evaluation project, 3 points indicate moderate feeling, and 1 point indicates unacceptable feeling										
	E2: Rapid Walking Test E3: Flexion and extension walking test E9: Pipeline experiment										
	E12: Filling Test										

Test sample picture



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地址：江苏省泰州市高港区临港经济园临港大道 166 号

Add: Lingang Road 166, Lingang Economic Park , Gaogang, Taizhou.Jiangsu

电话 (Tel): 0523-86989959

0523-86989939

邮编 (Post): 225300

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