

Test Report

Number: GZHT02309008

Sample Photo





Total Quality. Assured.

Test Report

Number: GZHT02309008

Applicant: DG SANTE
GRANGE, DUNSANY, CO. MEATH
IRELAND

Date: Jul 13, 2020

Attn:

Sample Description:

One (1) Group Of Submitted Sample Said To Be KN95 Protective Face Mask (Disposable Facepiece) In White.

Date Received : 2020-06-29
Date Tests Started : 2020-06-29
Type No. : Folding
Brand Name : Life Energy
Buyer : ASANUS Medizintechnik GmbH
Size : 15.5cm*10.5cm
Manufacturer's Name : GUANGZHOU KANGLING MEDICAL SUPPLIES CO LTD
Document Accordance : GB 2626-2006 Respiratory Protective Equipment - Non-Powered Air-Purifying Particle Respirator
KN95 Disposable Facepiece

Prepared And Checked By:
For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

BU / lisaxlyi



Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

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Conclusion:

Appearance Assessment	M
NaCl Particles Filter Efficiency	M
Inward Leakage	M
Inhalation Resistance	M
Exhalation Resistance	M
Dead Space	M
Field Of Vision Under Mask	M
Tensile Strength Of Head Harness	M
Flammability Test	M
Label Checking	F

Note: M = Meet Standard's Requirement F = Below Standard's Requirement
 C = Conform To The Declared Fibre Content * = See Remark
 # = No Comment N/A = Not Applicable

Test Conducted: 1. As Requested By The Applicant, For Details Refer To Attached Page (S)
 2. All the tested item are tested under the standard condition (except for indication).

Remark: The report is valid with commission test only for the test samples in the case of delivering samples by clients. No copy test report is valid without original special stamp of the test body.

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Tests Conducted (As Requested By The Applicant)

1 Appearance Assessment (GB 2626-2006 Item 6.1 & 6.2):

(I) Appearance Checking As received

Requirement =====	Complying =====	Uncomplying =====
No breakage, deformation and other noticeable defects on surface	√	
Headband should be adjustable	-	
Headband of replaceable facepiece should be replaceable	-	
The lens of full facepiece should not fogged to affect vision when wear	-	

(II) Appearance Checking After Temperature and Humidity Pre-treatment

Preconditioning:

- Place in environment of $(38 \pm 2.5) ^\circ\text{C}$ and $(85 \pm 5)\%$ relative humidity for (24 ± 1) hours.
- Then place in a dry environment of $(70 \pm 3) ^\circ\text{C}$ for (24 ± 1) hours.
- Then place in an environment of $(-30 \pm 3) ^\circ\text{C}$ for (24 ± 1) hours.

After the sample temperature is restored to room temperature for at least 4 hours, the subsequent test shall be carried out.

Requirement =====	Complying =====	Uncomplying =====
Components No Detached, Breakage and Deformation	√	

Remark: √ = Complying X = Uncomplying - =Not Applicable

Exclude the Product Label And All the Information Provided by the Manufacturer.

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2 NaCl Particles Filter Efficiency (GB 2626 – 2006, Clause 6.3)

Filter Efficiency (%)	As Received	Requirement =====
Specimen 1	99.94	≥ 95.0
Specimen 2	99.96	
Specimen 3	99.93	
Specimen 4	99.96	
Specimen 5	99.92	
Specimen 6	99.99	
Specimen 7	99.96	
Specimen 8	99.95	
Specimen 9	99.97	
Specimen 10	99.97	

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Filter Efficiency (%)	After Pre-treatment	Requirement =====
Specimen 1	99.92	≥ 95.0
Specimen 2	99.94	
Specimen 3	99.92	
Specimen 4	99.93	
Specimen 5	99.93	

Preconditioning

After the sample is taken out of the original package, the sample is pre-treated according to the following sequence conditioning.

- Place in environment of $(38 \pm 2.5) ^\circ\text{C}$ and $(85 \pm 5)\%$ relative humidity for (24 ± 1) hours.
- Then place in a dry environment of $(70 \pm 3) ^\circ\text{C}$ for (24 ± 1) hours.
- Then place in an environment of $(-30 \pm 3) ^\circ\text{C}$ for (24 ± 1) hours.

After the sample temperature is restored to room temperature for at least 4 hours, the subsequent test shall be carried out.

Remark: This test item is subcontracted to Tianfangbiao Standardization Certification & Testing Co., Ltd. with CNAS Registration No.: L0608.

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3 Inward Leakage (GB 2626 – 2006, Clause 6.4)

Subjects		Total inward leakage					TIL _{wearer} (%)
		TIL _{exercise} (%)					
		1)	2)	3)	4)	5)	
A.R.	#1	6.7	6.4	5.5	3.9	7.1	5.9
	#2	2.6	2.5	6.0	3.1	7.5	4.3
	#3	5.6	4.9	5.0	5.7	6.0	5.4
	#4	4.0	5.6	5.9	6.7	4.3	5.3
	#5	7.0	6.5	6.6	5.6	7.1	6.6
T.C.	#6	2.9	4.9	5.0	4.7	4.0	4.3
	#7	4.0	5.6	5.7	4.9	4.1	4.9
	#8	6.6	7.0	7.4	6.9	6.0	6.8
	#9	7.0	6.9	6.5	7.1	7.3	7.0
	#10	4.5	5.7	6.0	5.9	5.1	5.4

Preconditioning

After the sample is taken out of the original package, the sample is pre-treated according to the following sequence conditioning.

- Place in environment of $(38 \pm 2.5) ^\circ\text{C}$ and $(85 \pm 5)\%$ relative humidity for (24 ± 1) hours.
- Then place in a dry environment of $(70 \pm 3) ^\circ\text{C}$ for (24 ± 1) hours.
- Then place in an environment of $(-30 \pm 3) ^\circ\text{C}$ for (24 ± 1) hours.

After the sample temperature is restored to room temperature for at least 4 hours, the subsequent test shall be carried out.

Remark:

- without head movement or talking, 2 min;
- turning head from side to side (approx. 15 times), as if inspecting the walls of a tunnel for 2 min;
- moving the head up and down (approx. 15 times), as if inspecting the roof and floor for 2 min;
- reciting the alphabet or an agreed text out loud as if communicating with a colleague for 2 min;
- without head movement or talking, 2 min.

Item	Requirement	Pass Results
Individual exercise (TIL _{exercise} < 11%)	≥ 46	50
Individual wearer (TIL _{wearer} < 8%)	≥ 8	10

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Tests Conducted (As Requested By The Applicant)

4 Inhalation Resistance (GB 2626 – 2006, Clause 6.5)

Inhalation Resistance

Specimen 1

Specimen 2

As Received

239.0 Pa

227.3 Pa

Requirement

=====

≤350 Pa

Inhalation Resistance

Specimen 1

Specimen 2

After Pre-treatment

209.2 Pa

187.3 Pa

Requirement

=====

≤350 Pa

Preconditioning

After the sample is taken out of the original package, the sample is pre-treated according to the following sequence conditioning.

- Place in environment of $(38 \pm 2.5) ^\circ\text{C}$ and $(85 \pm 5)\%$ relative humidity for (24 ± 1) hours.
- Then place in a dry environment of $(70 \pm 3) ^\circ\text{C}$ for (24 ± 1) hours.
- Then place in an environment of $(-30 \pm 3) ^\circ\text{C}$ for (24 ± 1) hours.

After the sample temperature is restored to room temperature for at least 4 hours, the subsequent test shall be carried out.

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5 Exhalation Resistance (GB 2626 – 2006, Clause 6.6)

		Requirement =====
Exhalation Resistance		≤250 Pa
	As Received	
Specimen 1	217.5 Pa	
Specimen 2	208.0 Pa	

		Requirement =====
Exhalation Resistance		≤250 Pa
	After Pre-treatment	
Specimen 1	195.0 Pa	
Specimen 2	167.1 Pa	

Preconditioning

After the sample is taken out of the original package, the sample is pre-treated according to the following sequence conditioning.

- a) Place in environment of $(38 \pm 2.5) ^\circ\text{C}$ and $(85 \pm 5)\%$ relative humidity for (24 ± 1) hours.
- b) Then place in a dry environment of $(70 \pm 3) ^\circ\text{C}$ for (24 ± 1) hours.
- c) Then place in an environment of $(-30 \pm 3) ^\circ\text{C}$ for (24 ± 1) hours.

After the sample temperature is restored to room temperature for at least 4 hours, the subsequent test shall be carried out.

6 Dead Space (GB 2626-2006, Clause 6.9):

Facepiece Category: Disposable Facepiece

		Requirement =====
Concentration of CO ₂ (%)	1.0	≤ 1

Remark: This test item is subcontracted to Tianfangbiao Standardization Certification & Testing Co., Ltd. with CNAS Registration No.: L0608

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7 Field Of Vision Under Mask (GB/T 2891-1995)

		Requirement =====
Field Of Vision Under Mask	61°	≥ 60°

Remark: This test item is subcontracted to Tianfangbiao Standardization Certification & Testing Co., Ltd. with CNAS Registration No.: L0608.

8 Tensile Strength of Head Harness (GB 2626 – 2006, Clause 6.11)

Preconditioning

After the sample is taken out of the original package, the sample is pre-treated according to the following sequence conditioning.

- a) Place in environment of (38 ± 2.5) °C and (85 ± 5)% relative humidity for (24 ± 1) hours.
- b) Then place in a dry environment of (70 ± 3) °C for (24 ± 1) hours.
- c) Then place in an environment of (-30±3)°C for (24 ± 1) hours.

After the sample temperature is restored to room temperature for at least 4 hours, the subsequent test shall be carried out.

		Requirement =====
	Individual Reading	*
	As Received	After Pre-treatment
At Up Left	Passed with 10.0 N for 10 seconds and no detachment or breakage	Passed with 10.0 N for 10 seconds and no detachment or breakage
At Up Right	Passed with 10.0 N for 10 seconds and no detachment or breakage	Passed with 10.0 N for 10 seconds and no detachment or breakage
At Low Left	Passed with 10.0 N for 10 seconds and no detachment or breakage	Passed with 10.0 N for 10 seconds and no detachment or breakage
At Low Right	Passed with 10.0 N for 10 seconds and no detachment or breakage	Passed with 10.0 N for 10 seconds and no detachment or breakage

* = 10 N for 10 seconds and no detachment or breakage
 Remark: N = Newton

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9 Flammability Test (GB 2626-2006, Clause 6.15)

Requirement

Non-Ignition

Ignition, After flame Time not more than 5.0 seconds for any specimen.

Preconditioning

After the sample is taken out of the original package, the sample is pre-treated according to the following sequence conditioning.

a) Place in environment of $(38 \pm 2.5) ^\circ\text{C}$ and $(85 \pm 5)\%$ relative humidity for (24 ± 1) hours.b) Then place in a dry environment of $(70 \pm 3) ^\circ\text{C}$ for (24 ± 1) hours.c) Then place in an environment of $(-30 \pm 3) ^\circ\text{C}$ for (24 ± 1) hours.

After the sample temperature is restored to room temperature for at least 4 hours, the subsequent test shall be carried out.

	Observation
	Non-Ignition

Remark: This test item is subcontracted to Tianfangbiao Standardization Certification & Testing Co., Ltd. with CNAS Registration No.: L0608.

10 Label Checking (GB 2626-2006 Clause 7):

7.1 Product Label		Requirement
A. Product Name, Brand Or Other Information Which Can Identify The Manufacturers Or The Suppliers	Absent*	Mandatory
B. Model And Size	Not Applicable*	If Applicable
C. Product Standard Number, Filter Element Should State The Filter Material's Grade Which Combined With Product Standard Number And The Filter Efficiency Level, I.E. GB 2626-2006 KN90 Or GB 2626-2006 KP100	Absent*	Mandatory

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7.2 Packing Label		Requirement
Minimum Sales Package, Should Label Clearly And Permanently In Chinese, Or Through The Transparent Packaging Can Found The Following Information	Absent*	Mandatory
A. Product Name, Brand Or Other Information Which Can Identify Manufacturers Or Suppliers	Present	Mandatory
B. Type, Model And Size Of Mask	Not Applicable*	If Applicable
C. Product Standard Number, Filter Element Should State The Filter Material's Grade Which Combined With Product Standard Number And The Filter Efficiency Level, I.E. GB 2626-2006 KN90 Or GB 2626-2006 KP100	Absent*	Mandatory
D. Product License Number	Absent*	Mandatory
E. Date Of Manufacture (At Least To Month) Or Batch Number, Storage Life (At Least To Year)	Present	Mandatory
F. The Sentence Alike "See Information Provided By The Manufacturer"	Absent*	Mandatory
G. Manufacturers Recommended Storage Conditions (At Least Including Temperature And Humidity)	Absent*	Mandatory

Remark:

*= Only check the label content in English due to English package provide by client

Label Checking Is Only Focused On The Presence Of The Content Or Not, It Is The Responsibility Of The Manufacturer To Ensure The Accuracy.

End of Report

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