

TEST REPORT

Report No.: 66.430.25.4081.01

Dated: 2025-11-28



中国认可
国际互认
检测
TESTING
CNAS L7038



Applicant: HUIZHOU ANBOSON TECHNOLOGY CO., LTD
Address: 2F, No. 7, Hechang East Fourth Road, Zhongkai High-Tech Zone,
516000 Huizhou, PEOPLE'S REPUBLIC OF CHINA
Contact Person: Mr. Wu

Sample Submitted: The Sample(s) and Its (Their) Information(s) Was (Were) Submitted by
Applicant and Identified.
A. Black disposable nitrile gloves (the whole gloves) - size M/size L/size
XL/ size XXL - 5 pairs/17 pairs/5 pairs/5 pairs
B. Orange disposable nitrile gloves (the whole gloves) - size M/size
L/size XL/ size XXL - 1 pair/1 pair/1 pair/1 pair

Standard: EN ISO 374-1:2016+A1:2018 & EN ISO 21420:2020
Sample Description: Disposable Dimond Grip Nitrile Gloves
Colour: Black /Orange
Style No.: ABC-DG01
Product Specification:

Model	ABC-DG01	
Size	M-XXL	M-XXL
Glove Palm 1	Black Nitrile rubber synthetic material	Orange Nitrile rubber synthetic material

Sample Received Date: 2025-11-14
Date of Testing: 2025-11-14 to 2025-11-24

Test Result(s): Refer to the Section 3 and 4

Note:

(1) Each order is subject to acceptance of our [General Terms and Conditions](#) and the [TÜV SÜD Testing, Certification, Validation and Verification Regulation](#), in the version valid at the time the contract is concluded. For full version of above both documents, please visit the link to view.

(2) The results in this report are relevant only to the sample(s) tested.

(3) The test report shall not be reproduced except in full without the written approval of the laboratory.

(4) Disclaimer Measurement Uncertainty:

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 or CNAS-GL015:2022.

(5) The testing report without CMA stamp is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

Laboratory:
TÜV SÜD Certification and Testing
(China) Co., Ltd. Xiamen Branch
Testing Location: Xiamen
Form No.: TC_XMN_F_24.04 E
Rev:03
Effective Date:2024-10-23

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1. Test Sample Photo(s)



Sample A



Sample B

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2. Identification of The Test Subject

Sample	Description	Remark
001	Black Nitrile rubber (body)	Finished Product (A)
002	Orange Nitrile rubber (body)	Finished Product (B)

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3. Conclusion

No.	Test Parameter(s)	Conclusion
1.	Performance Requirement – Penetration	Pass
2.	Performance Requirement – Degradation	#
3.	Performance Requirement – Permeation	K: Level 6 P: Level 6 T: Level 6
4.	Sizing and Measurement of Gloves	Pass
5.	Dexterity	Level 5
6.	pH Value Test	Pass
7.	Polycyclic Aromatic Hydrocarbons (PAHs) Content Test	Pass

Notes: Pass = Meet Requirement
= No Comment
N/A = Not Applicable

Fail = Below Requirement
- = Did Not Perform

Remark: (1) Samples are tested as received.

TÜV SÜD Certification and Testing (China) Co., Ltd. Xiamen Branch

Reviewed by:



Approved by:

Stacey Yang
Softlines Department

Damon Zheng
Softlines Department

Nemo Chen
Softlines Department

Laboratory:
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4. Test Result(s)

4.1 Performance Requirement – Penetration (EN ISO 374-1:2016+A1:2018 Clause 5.2)

Air leak test method: EN 374-2:2014, 7.2

Water leak test method: EN 374-2:2014, 7.3

Total pressure: 2.5 kPa

Sample	Size	Parameters	Results	Requirement	Conclusion
A	M	Air leak test	No leak	No leak	Pass
		Water leak test	No leak	No leak	Pass
	L	Air leak test	No leak	No leak	Pass
		Water leak test	No leak	No leak	Pass
	XL	Air leak test	No leak	No leak	Pass
		Water leak test	No leak	No leak	Pass
	XXL	Air leak test	No leak	No leak	Pass
		Water leak test	No leak	No leak	Pass

4.2 Performance Requirement – Degradation (EN ISO 374-1:2016+A1:2018 Clause 5.3)

Code Letter	Chemical	CAS Number
K	Sodium hydroxide 40%	1310-73-2
P	Hydrogen peroxide 30%	7722-84-1
T	Formaldehyde 37%	50-00-0

Test method: EN ISO 374-4:2019

Sample	Size	Test Position	Code	Results						
				DR1 (%)	DR2 (%)	DR3 (%)	Mean, DR (%)	Standard deviation, SD(%)	Observation	Liner
A	XL	Palm	K	2.9	18.0	9.9	10.3	7.5	No obvious change	No liner
	XL	Palm	P	32.0	47.0	31.0	36.6	8.9	No obvious change	No liner
	XL	Palm	T	21.7	42.8	30.5	31.7	10.6	No obvious change	No liner

Remark: DR is the degradation of the glove specimen against challenge chemical tested.

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4.3 Performance Requirement – Permeation (EN ISO 374-1:2016+A1:2018 Clause 5.4)

Code Letter	Chemical	CAS Number	Classification
K	Sodium hydroxide 40%	1310-73-2	Level 6
P	Hydrogen peroxide 30%	7722-84-1	Level 6
T	Formaldehyde 37%	50-00-0	Level 6

Normalised permeation rate: 1.0 µg/(cm²·min)

Sample	Code	Test Position	Loop System	Parameters	Results			Requirement	Classification
					Sample 1	Sample 2	Sample 3		
A	K	Palm	Closed loop (#2, #3)	Thickness (mm)	0.58	0.58	0.60	*	Level 6
				NBT (min)	>480	>480	>480		
				Observation	No obvious change	No obvious change	No obvious change		
	P	Palm	Closed loop (#2, #4)	Thickness (mm)	0.58	0.58	0.60	*	Level 6
				NBT (min)	>480	>480	>480		
				Observation	Discoloration, Swelling	Discoloration, Swelling	Discoloration, Swelling		
	T	Palm	Open loop (#1, FID)	Thickness (mm)	0.58	0.58	0.60	*	Level 6
				NBT (min)	>480	>480	>480		
				Observation	Discoloration, Swelling	Discoloration, Swelling	Discoloration, Swelling		

Remark: NBT: Normalized Breakthrough Time

#1: Collection medium: gas

#2: Collection medium: liquid

#3: Analytic technique used: Continues measurement with conductivity electrode.

#4: Analytic technique used: Continues measurement with Redox electrode.

*=

Measured breakthrough time, min	Permeation performance level
> 10	1
> 30	2
> 60	3
> 120	4
> 240	5
> 480	6

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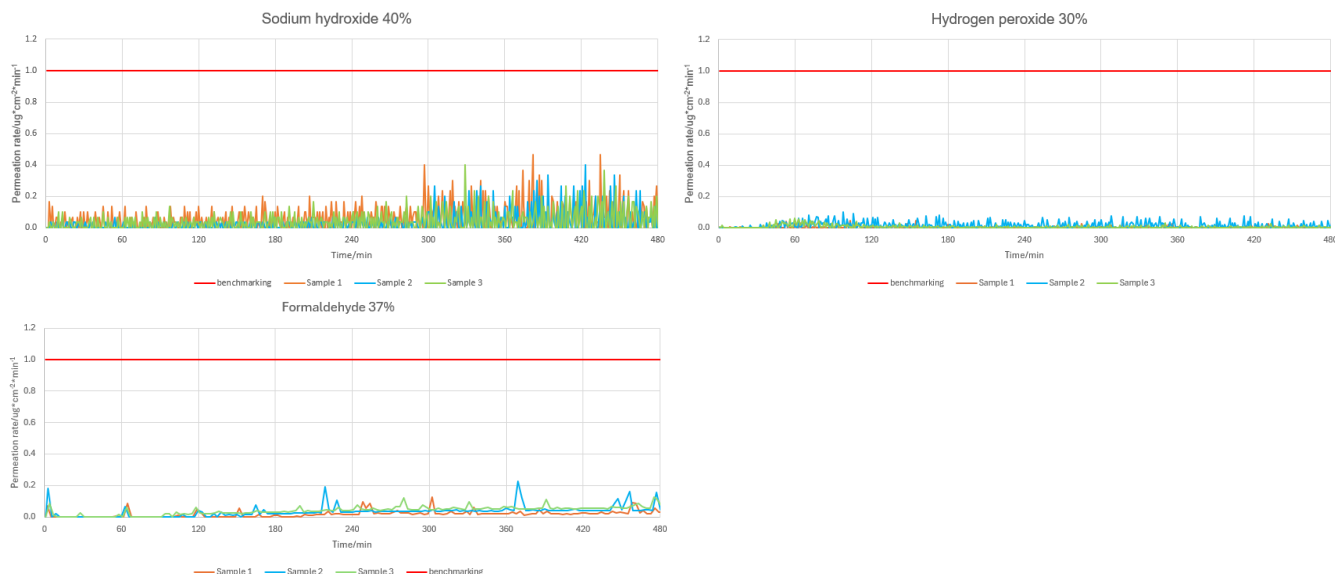
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Permeation Rate Graphs:



4.4 Sizing and Measurement of Gloves (EN ISO 21420:2020 Clause 5.1 & 6.1)

Sample	Size	Parameters	Results	Requirement	Conclusion
A	M	Fitting	Hand circumference: 188 mm Glove length: 248 mm (According to client's size designation)	Sizes of gloves are defined with respect to the sizes of the hands they are to fit	Pass
	L	Fitting	Hand circumference: 208 mm Glove length: 247 mm (According to client's size designation)	Sizes of gloves are defined with respect to the sizes of the hands they are to fit	Pass
	XL	Fitting	Hand circumference: 224 mm Glove length: 252 mm (According to client's size designation)	Sizes of gloves are defined with respect to the sizes of the hands they are to fit	Pass
	XXL	Fitting	Hand circumference: 248 mm Glove length: 246 mm (According to client's size designation)	Sizes of gloves are defined with respect to the sizes of the hands they are to fit	Pass

Remark: Client's size designation:

Size	Glove length (mm)	Palm width (±5mm)
M	245 mm	95 mm
L	245 mm	105 mm
XL	245 mm	115 mm
XXL	245 mm	125 mm

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4.5 Dexterity (EN ISO 21420:2020 Clause 5.2 & 6.2)

Sample	Specimen	Parameters	Results (mm)	Requirement	Classification
A	Specimen 1	The smallest diameter of the pin that can be picked up	5	/	/
	Specimen 2	The smallest diameter of the pin that can be picked up	5		
	Specimen 3	The smallest diameter of the pin that can be picked up	5		
	Specimen 4	The smallest diameter of the pin that can be picked up	5		
	The smallest diameter of the pin that can be picked up		5	*	Level 5

Remark: *=

Performance level	0	1	2	3	4	5
Smallest diameter of pin (mm)	No pin can be picked up	11.0	9.5	8.0	6.5	5

4.6 pH Value Test (EN ISO 21420:2020 Clause 4.2)

Test with reference to ISO 3071:2020, using KCl solution, determined by pH meter

Sample	Result	Requirement	Conclusion
001	7.4	3.5< pH <9.5	Pass
002	7.4	3.5< pH <9.5	Pass

- Remark: 1. Temperature of the solution is 22.0°C during measurement
2. "<" denotes less than

4.7 Polycyclic Aromatic Hydrocarbons (PAHs) Content Test (EN ISO 21420:2020 Clause 4.2)

Test with reference to ISO 16190:2021, determined by GC-MS

[Reporting Limit = 0.10 mg/kg]

No.	Substances List	CAS No.	Result (mg/kg)		Requirement (mg/kg)
			001	002	
1	Benzo[a]pyrene	50-32-8	ND	ND	Each <1
2	Benzo[e]pyrene	192-97-2	ND	ND	
3	Benzo[a]anthracene	56-55-3	ND	ND	
4	Benzo[b]fluoranthene	205-99-2	ND	ND	
5	Benzo[j]fluoranthene	205-82-3	ND	ND	
6	Benzo[k]fluoranthene	207-08-9	ND	ND	
7	Chrysene	218-01-9	ND	ND	
8	Dibenzo[ah]anthracene	53-70-3	ND	ND	
Conclusion			Pass	Pass	--

- Remark: 1. "mg/kg" denotes milligram per kilogram
2. "ND" denotes Not Detected
3. "<" denotes less than

-- END OF THE TEST REPORT --